Correction of RBFOX1 deficit rescues Huntington's disease mis-splicing and pathology

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Abstract

RNA mis-splicing correction therapies have been developed for neurological disorders like spinal muscular atrophy and neuronal ceroid lipofuscinosis. In Huntington's disease (HD), pathogenic mis-splicing was initially observed in genes linked to neurodegeneration, such as *HTT* itself, *MAPT*, and *TAF1*. Later, genome-wide analyses identified a broader mis-splicing signature in HD brains, involving additional neurodegeneration-related genes. Correcting each mis-spliced gene individually would be unfeasible, highlighting the need to target upstream splicing factors altered in HD. Our previous motif-enrichment analyses of intronic sequences flanking the exons mis-spliced in HD identified RBFOX and U2AF2 as candidate splicing factors, both of which are reduced in HD brains. In this study, we tested their pathogenic relevance generating conditional transgenic mouse models that overexpress RBFOX1 or U2AF2 in forebrain neurons and combining them with HD mice. Our results show that moderate overexpression of RBFOX1, but not U2AF2, corrects multiple HD-associated mis-splicing events and alleviates HD mice neuropathology and motor symptoms. These findings demonstrate that RBFOX1 downregulation contributes to HD pathology and underscore the therapeutic potential of strategies aimed at increasing RBFOX1 levels.

Keywords: Huntington's disease / RBFOX / Splicing / Transgenic mice / U2AF2.

Introduction

Alternative splicing (AS) of pre-mRNA is the differential processing of introns and exons that results in multiple transcript isoforms from individual genes, thereby increasing diversity of the proteome. However, when it is not correctly executed, AS leads to mis-splicing, and this may result in proteins with altered function and stability (Montes *et al*, 2019). Multiple splicing factors and other RNA-binding proteins (RBPs) are responsible for the precise modulation of AS (Ule & Blencowe, 2019), and mis-splicing has been proposed to play a role in multiple brain pathologies, including neurodegenerative diseases (Nik & Bowman, 2019) like Alzheimer (Hsieh *et al*, 2019; Raj *et al*, 2018), amyotrophic lateral sclerosis (Fratta *et al*, 2018; Luisier *et al*, 2018) or Huntington (Elorza *et al*, 2021; Lin *et al*, 2016b; Schilling *et al*, 2019).

Huntington's disease (HD) is an autosomal dominant neurodegenerative disorder characterized by motor abnormalities together with psychiatric symptoms and by brain atrophy particularly affecting the striatum and the cerebral cortex (Walker, 2007). HD is caused by a CAG repeat expansion in exon 1 of the Huntingtin (*HTT*) gene, encoding a polyglutamine (polyQ) stretch in the N-terminal region of the HTT protein (HDCRG, 1993) with a well-documented pathogenic role (Bates *et al*, 2015). Similar polyQ-encoding CAG triplet repeats expansions cause eight additional neurological disorders, such as some spinocerebellar ataxias (SCAs) and spinal-bulbar muscular atrophy (SBMA) (Orr & Zoghbi, 2007).

Nevertheless, beyond polyQ-driven toxicity, growing evidence indicates that expanded CAG triplet-containing mRNAs cause additional toxicity in these and other triplet repeat disorders such as myotonic dystrophy type 1 (DM1) (Li *et al*, 2008; Ranum & Cooper, 2006). Particularly, it has been suggested an aberrant direct interaction of the expanded CAG triplet repeat containing mRNAs with certain splicing factors (SFs) such as MBNL1 (Mykowska *et al*, 2011), U2AF2 (Schilling *et al.*, 2019; Tsoi *et al*, 2011) and SRSF6 (Schilling *et al.*, 2019). Accordingly, mis-

localization of specific SFs in nuclear foci and inclusion bodies has been reported in HD (de Mezer *et al*, 2011; Fernandez-Nogales *et al*, 2014; Mykowska *et al.*, 2011).

The detection of alterations in the alternative splicing machinery in HD was followed by the identification of individual mis-splicing events that could significantly contribute to HD pathogenesis, such as an intron retention in *HTT* that favors a highly toxic exon1-encoded form of the protein (Sathasivam *et al*, 2013), the increased inclusion of *MAPT* exon 10 leading to a detrimental increase in four-tubulin binding repeat-tau (Fernandez-Nogales *et al.*, 2014) and the use of an alternative splice site in exon 5 of *TAF1* that correlates with decreased expression of this transcription factor (Hernandez *et al*, 2020), as in X-linked dystonia parkinsonism (Diaw & Lohmann, 2020; Makino *et al*, 2007).

Apart from the mentioned individually identified pathogenic mis-splicing events, through a human/mouse intersect RNA-seq analysis, we were able to define a genome-wide striatal mis-splicing signature triggered by the HD-causing mutation in both mice and humans (Elorza *et al.*, 2021; Xing *et al*, 2021), which allowed us to identify additional likely effectors in HD pathogenesis. More precisely, we found six neurodegeneration-linked genes whose mis-splicing correlates with their decreased protein levels. These are: *CCDC88C* (linked to SCA40, OMIM #616053), *KCTD17* [linked to myoclonic dystonia 26 (DYT26) OMIM #616398], *SYNJ1* [linked to early onset Parkinson disease 20 (PARK20), OMIM #615530], *VPS13C* [linked to early onset Parkinson disease 23 (PARK23), OMIM #616840], *TRPM7* [linked to amyotrophic lateral sclerosis-parkinsonism/dementia complex (ALSP/DC), OMIM #105500] and *SLC9A5* [which has been suggested to be linked to episodic kinesigenic dyskinesia 2 (EKD2)](Elorza *et al.*, 2021).

Correction of each of the above mentioned potentially pathogenic mis-splicing events might be therapeutically relevant, but approaching them individually would be inefficient and unaffordable. Alternatively, the identification of pivotal upstream splicing factors altered in HD may lead to design therapeutic strategies to simultaneously amend multiple

neurodegeneration-associated mis-spliced genes. In this regard, in our previous study we identified five families of SFs that are good candidates to underlie the HD-associated mis-splicing signature because they show decreased protein levels in brains of HD patients and mice, and their consensus sequences are overrepresented in the intronic regions flanking the exons that are mis-spliced in HD (Elorza *et al.*, 2021). Out of These five families of SFs, the RBFOX family binds the (U)GCAUG consensus sequence while the rest; namely ELAVL, HNRNPC, TIA1 and U2AF2; bind U-rich motifs.

The RBFOX family of SFs includes RBFOX1 (also known as Ataxin-2 binding protein 1, A2BP1), which is expressed selectively in neurons and in heart and skeletal muscle; RBFOX2 (RBM9), which has a wider expression pattern (whole embryo, ovary, stem cells, brain and skeletal muscle); and RBFOX3 (NeuN), which is expressed exclusively in neurons (Kim *et al*, 2009; Kuroyanagi, 2009). Remarkably, the protein levels of these three splicing factors are decreased in brains of HD patients and mice (Elorza *et al.*, 2021).

Out of the U-rich motif binding candidate SFs, U2AF2 (also called U2AF65) is particularly interesting because, apart from being an essential SF (as it is required for the binding of U2 snRNP to the pre-mRNA branch site), it also participates in alternative splicing (Shao *et al*, 2014) and has previously been related to HD pathophysiology (Sun *et al*, 2015; Tsoi *et al.*, 2011). Furthermore, a functional interactor of U2AF2 is RBM5 (Bechara *et al*, 2013; Zhou *et al*, 2018), a splicing regulator that displays a differential RNA-binding profile in the R6/2 mouse model and contributes to mis-splicing of neurodegeneration related genes (Mullari *et al*, 2023).

We therefore reasoned that correcting the decrease of either RBFOX or U2AF2 might have a pleiotropic beneficial effect for HD by simultaneously amending multiple mis-spliced genes, and that this could be tested through a mouse genetics approach. For this, here we have generated two new transgenic mouse lines, one overexpressing RBFOX1 and another overexpressing U2AF2, to be combined with HD mouse models in order to explore whether counteracting the

decreased levels of these SFs results in attenuation of the molecular, histological and behavioral phenotypes of HD mice.

Results

Generation of Tg mouse lines with conditional neuronal overexpression of RBFOX1 or U2AF2

In order to generate RBFOX overexpressing mice, we first considered which RBFOX paralogue would be more relevant to the mis-splicing signature of HD striatum. Interestingly, our previous data from RNA-seq analysis of the widely used R6/1 mouse model of HD at early symptomatic stages of disease (3.5 month-old) showed down-regulation of *Rbfox1* mRNA (FC = 0.8; *Padj* = 2,96 x 10^{-5}) (Elorza *et al.*, 2021), while *Rbfox2* and *Rbfox3* did not differ between WT and R6/1 mice (Fig. EV1A). Furthermore, we here corroborate the decrease in *Rbfox1* transcript levels by RT-PCR in an independent set of samples from early symptomatic R6/1 mice (25.8% decrease, *P* = 0.03) (Fig. EV1B). This points to Rbfox1 as the earliest altered and therefore best candidate to, upon overexpression, correct mis-splicing and pathology in HD mice. Regarding the different RBFOX1 isoforms, we chose to overexpress the RBFOX1 transcript isoform that lacks the alternatively spliced exon A53, as this preserves the nuclear localization signal required for RBFOX1 to act as a SF (Damianov & Black, 2010; Lee *et al*, 2009; Nakahata & Kawamoto, 2005), as opposed to the cytoplasmic forms of RBFOX1 involved in mRNA stability and translation (Conboy, 2017). Furthermore, we verified by immunohistochemistry staining in striatal sections from R6/1 mice and HD patients that the decrease in Rbfox1 protein previously observed by Western blot, predominantly corresponds to nuclear forms (Fig. EV1C,D). To generate U2AF2 overexpressing mice, no equivalent considerations apply, and we simply decided to express the transcript encoding the 475 aa canonical isoform (Uniprot P26368-1).

Given that mutations in RBFOX or U2AF2 lead to neurodevelopmental disorders (Bill *et al*, 2013; Li *et al*, 2024), to avoid confounding neurodevelopmental artifacts, we decided to use the double transgenic tTA (Tet-Off) system that allows to generate mice with different time windows and levels of transgene expression. With this purpose, we generated β-Gal-BiTetO-hRBFOX1 and β-Gal-BiTetO-hU2AF2 transgenic mouse lines, harboring a bidirectional tetracycline-controlled promoter (BitetO) flanked by the hRBFOX1 or hU2AF2 sequence on one direction, and the β-Gal sequence on the other, the latter as a reporter of transgene expression (Fig. 1A).

The BitetO promoter in β-Gal-BiTetO-hRBFOX1 and β-Gal-BiTetO-hU2AF2 mice is essentially silent and, to achieve transgene transactivation in forebrain regions affected in HD -such as the striatum and the cortex-, we bred these mice with two different CamKII-tTA mouse lines that express the transactivator tTA in forebrain neurons (Fig. 1A). The double transgenic mice are termed TgRBFOX1 or TgU2AF2 and will express the corresponding SF at different levels and time points, according to the specific CamKII-tTA driver mouse line used. The CamKII-tTA mouse line with higher tTA expression (starting at late embryonic stages) resulted in TgRBFOX1 and TgU2AF2 mice with detectable microcephaly (9.4%, $P = 8 \times 10^{-3}$ and 9.8% , $P = 1.4 \times 10^{-3}$ decrease in brain weight, respectively), while the TgRBFOX1 and TgU2AF2 mouse lines generated with milder, and only postnatal expression, showed unaltered brain weight (Fig. EV2A,B). For this study aiming correction of phenotypes of HD mice, we therefore decided to use the TgRBFOX1 and TgU2AF2 mice generated with the CamKII-tTA mouse line with moderate level of expression to be combined with HD mice. These mice showed the expected neuronal pattern of transgene expression restricted to forebrain regions such as cortex, striatum and hippocampus, as evidenced by the reporter β-Gal (Fig. EV2C). Furthermore, we verified the nuclear overexpression of RBFOX1 and U2AF2 in the brain regions that undergo the most marked atrophy in HD (cortex and striatum) by immunohistochemistry with antibodies against the corresponding SF (Fig. 1B).

Overexpression of RBFOX1, but not U2AF2, attenuates the HD-associated motor deficit of R6/1 mice

To check whether correction of the RBFOX1 or U2AF2 deficit can be beneficial to HD mice, we combined R6/1 mice with TgRBFOX1 or TgU2AF2 mice. Then, the resulting WT, R6/1 and R6/1+TgRBFOX1 or WT, R6/1 and R6/1+TgU2AF2 littermates were subjected to the accelerating rotarod test, at ages at which R6/1 mice are known to show early (3.5 months) or advanced (5 months) phenotypes (Fig. 2A). Remarkably, we observed that overexpression of RBFOX1 attenuated the motor phenotype of R6/1 mice. More precisely, at the age of 3.5 months, R6/1+TgRBFOX1 mice performed better than R6/1 mice (Fig. 2B) and they still showed a tendency to perform better than R6/1 mice at the age of 5 months. However, overexpression of U2AF2 did not attenuate the motor phenotype of HD mice, as R6/1+TgU2AF2 mice were indistinguishable from R6/1 mice at both tested ages (Fig. 2B). These results strongly suggest that mis-splicing of RBFOX targets, as a consequence of decreased levels of RBFOX1, significantly contributes to HD pathogenesis.

RBFOX1 correction in HD mice attenuates mis-splicing of disease associated genes

To explore RBFOX1 target transcripts relevant to HD pathophysiology, we performed RNA-seq analysis of forebrain mRNA from TgRBFOX1 mice, for comparison with the mis-splicing signature previously stablished for HD striatum. The splicing events that varied between WT and TgRBFOX1 mice with a difference in percent-splice-in (dPSI) > 10 were identified by running Vast-tools (Fig. 3A and Table 1). Then, the 332 genes with exons altered in TgRBFOX1 mice were confronted to the 245 genes that we previously found with mis-spliced cassette exons is striatum of both HD patients and early symptomatic R6/1 mice (Elorza *et al.*, 2021). We observed a significant overlap (RF: 3.3, $P < 1.47 \times 10^{-6}$) between genes affected by the in vivo overexpression of RBOXF1 and the HD-mis-splicing signature (approximately 9% of the latter) (Fig. 3B), as expected given the high percentage of direct RBFOX targets -previously identified through CLIP-seq analysis (Weyn-Vanhentenryck *et al*, 2014)-, within the HD mis-splicing signature (Fig. EV3A).

Interestingly, out of the six key HD mis-spliced genes previously identified as likely pathogenic (Elorza *et al.*, 2021), two (Synj1 and Slc9a5) were altered upon *in vivo* overexpression of RBFOX1 (Fig. 3B).

We then decided to validate by RT-PCR the correction in R6/1+TgRBFOX1 mice of the mis-splicing of Synj1 and Slc9a5 that takes place in R6/1 mice, as well as that other disease-associted genes that are direct RBFOX-targets and have exons mis-spliced in brains of HD patients and mice (such as Macf1 and Cadps). As shown in Fig.3C, the mis-splicing of Synj1, Macf1 and Cadps was total or partially corrected in R6/1+TgRBFOX1 mice. Regarding Slc9a5, we noticed that despite not being included in the set of direct RBFOX targets of Fig. 3A, it contains the (U)GCAUG RBFOX binding consensus sequence in the intron downstream the 71 nt exon whose inclusion is decreased in R6/1 mice compared to WT mice and, interestingly, such decreased inclusion is no longer observed in R6/1+TgRBFOX1 mice (Fig. 3C). In summary, from these experiments we can conclude that mild RBFOX1 overexpression in forebrain neurons attenuates the mis-splicing of disease associated genes that takes place in HD mice.

RBFOX1 correction attenuates neuropathology in HD mice

We finally decided to check whether partial correction of the Rbfox1 decrease of R6/1 mice together with its subsequent attenuation of mis-splicing of RBFOX targets, apart from attenuating motor phenotype, also has a positive impact on HD-associated neuropathology. For this, we first immunostained sagittal sections from 3.5-month-old WT, R6/1 and R6/1+TgRBFOX1 mice for the striatal marker DARPP32 to analyse atrophy (Fig. 4A) and for cleaved caspase 3 to detect apoptotic cells (Fig. 4B). This revealed that the decrease in striatal area observed in R6/1 mice respect to WT mice was significantly attenuated in R6/1+TgRBFOX1 mice. In good agreement, the significant increase in the number of cleaved caspase-3 positive cells detected in R6/1 mice is no longer observed in R6/1+TgRBFOX1 mice. Altogether, our results demonstrate that mild transgenic neuronal overexpression of RBFOX1 suffices to

attenuate the mis-splicing and the neuroanatomical and motor abnormalities of HD mice, thus evidencing that the decrease of RBFOX1 that takes place in brains of HD patients and mice significantly contributes to HD pathogenesis.

Discussion

Here we generate transgenic mouse lines with neuronal overexpression of RBFOX1 or U2AF2 to attenuate the decreased levels of these splicing factors in HD mice. The observed amelioration of transcriptomic, histopathological, and behavioral phenotypes upon RBFOX1 overexpression demonstrates that diminished RBFOX activity contributes to HD pathogenesis, and suggests therapeutic potential of interventions able to increase RBFOX activity.

RBFOX1 was one of the candidate SFs to overexpress in HD mice because it is the first member of the RBFOX family to show decreased transcript and protein levels. However, along disease progression, the three members of the family show decreased protein levels. Understanding the mechanisms by which their levels decrease may help to envision ways to prevent such decrease. As mentioned, early decrease of RBFOX1 protein levels can be explained by its also decreased transcript levels, but early decreases of RBFOX2 and RBFOX3 do not correlate with diminished transcript levels, suggesting that post-transcriptional mechanisms might also be at play. In this regard, CPEB4-dependent alterations in transcriptome polyadenylation and subsequent translation of affected transcripts has been reported in HD mice and, interestingly, Rbfox2 transcript is among those showing reduced polyadenylation in R6/1 mice (Picó *et al*, 2021), what is expected to contribute to decreased translation (Ivshina *et al*, 2014).

Regulation of transcript stability and translation by microRNAs (miRNAs) is another mechanism of posttranscriptional regulation of gene expression that is known to affect RBFOX genes. At least two miRNAs have been shown to diminish RBFOX1 expression: miR-980 in the context of

stress-dependent ribonucleoprotein granule formation (Kucherenko & Shcherbata, 2018) and miR-129-5p that promotes synaptic downscaling in models of chronically elevated network activity (Rajman *et al*, 2017). In this regard, hyperactivity of striatal neurons has been reported in HD mice (Miller *et al*, 2011; Rebec *et al*, 2006), and one might expect a compensatory increase of mir-129-5p. However, no changes in mir-129 levels have been reported in the striatum of individuals with HD, while in the frontal cortex they show upregulated mir-129-3p and downregulated mir-129-5p (Marti *et al*, 2010).

In any case, neutralizing miR-980 or miR-129-5p might have the desirable effect of increasing RBFOX1 protein levels. Antagomirs are a class of chemically engineered oligonucleotides designed to silence endogenous microRNAs as their sequence is complementary to their specific miRNA target (Stenvang *et al*, 2012). Interestingly, antagomirs have already been shown to be effective and safe in animal models of neuromuscular diseases such as DM1 upon systemic administration (Cerro-Herreros *et al*, 2018). In that study, the authors sought to increase levels of a different splicing factor (MBNL) by antagonizing miR-23b and miR-218, and the target tissue was skeletal muscle. However, reaching the brain to increase RBFOX1 expression with potential miR-980 or miR-129-5p antagomirs can be more challenging as they should be engineered to cross the blood-brain barrier. It is worth noting though, that we have limited our study to analyzing RBFOX levels and functional implications in the brain of HD mice and patients but, since RBFOX-dependent AS is also important in muscle physiology (Singh *et al*, 2018) and this tissue is also affected in HD (Zielonka *et al*, 2014), we cannot fully discard a role of RBFOX also in HD peripheral tissues. However, exploring this goes beyond the scope of the present study.

As mentioned, RBFOX1 loss of function, normally due to deletions or point mutations in the *RBFOX1* locus, has previously been associated to neurodevelopmental disorders like epilepsy, intellectual disability or ASD (Bhalla *et al*, 2004; Bill *et al.*, 2013; Lim *et al*, 2006; Martin *et al*, 2007; Sebat *et al*, 2007). The relevance of RBFOX1 to ASD pathogenesis is believed to be due, in

part, to its ability to regulate microexons (Li *et al*, 2015). Microexons, are exons of 30 or fewer nucleotides with a neural specific alternative splicing (AS) pattern that has been shown to be dysregulated in ASD and to contribute to its aetiology (Gonatopoulos-Pournatzis & Blencowe, 2020; Irimia *et al*, 2014; Li *et al.*, 2015; Parras *et al*, 2018). Curiously, two of the four HD-associated mis-splicing events that we show corrected in this study upon transgenic RBFOX1 overexpression, Macf1 and Cadps, are microexons.

Interestingly, a recent study performed on an established isogenic HD cell model demonstrates widespread neuronal differentiation stage- and CAG length-dependent splicing changes (Tano *et al*, 2023) and we noticed that the genes whose mis-splicing gets corrected by our RBFOX1 overexpression approach (Synj1, Macf, Cadps and Slc19a5) are also found mis-spliced in the isogenic HD cell model, thus suggesting that many of the RBFOX1 dependent mis-splicing events might be taking place at early stages of neuronal maturation and prodromal disease. This fits with the mentioned well stablished role of RBFOX1 during neurodevelopment and the neurodevelopmental component of HD pathogenesis (Braz *et al*, 2022).

Interestingly, it has also been reported an increase in RBFOX1 levels and an associated aberrant pattern of alternative RNA-processing in neurons derived from iPSCs of Parkinson´s disease (PD) patients (Lin *et al*, 2016a), In this regard, our results show that excess RBFOX1 in our mouse lines with highest transgene expression results *per se* in decreased brain weight. Besides, in combination with R6/1 mice, these mice -far from alleviating the motor impairment of HD mice-, even seem to induce a worsening (data not shown). Accordingly, if the here generated TgRBFOX1 mouse lines were bred with proper tTA driver mice to drive RBFOX1 overexpression to dopaminergic neurons, they might represent a model of excess RBFOX activity in PD.

Although our previous scan motif analysis identified U2AF2 as a possible upstream splicing factor responsible of the HD mis-splicing signature, and two previous studies had related U2AF2 to HD pathophysiology (Sun *et al.*, 2015; Tsoi *et al.*, 2011), the results of this study indicate that the

decrease in U2AF2 levels, at least in striatal and cortical neurons, does not seem to significantly contribute to disease progression. The possibility still exists that overexpressing U2AF2 in other cell types where expression of mutant Htt is also pathogenic, like astrocytes (Bradford *et al*, 2009) or oligodendrocytes (Ferrari Bardile *et al*, 2019) might have resulted in amelioration of HD-like phenotypes. These seems however unlikely, as gene ontology analyses of genes accounting for the HD mis-splicing signature essentially yielded neuronal terms. An alternative explanation for the lack of improvement of HD mice upon U2AF2 overexpression is that, as mentioned, in our previous motif analysis (Elorza *et al.*, 2021) we also identified other U-rich binding SFs, such as PTBP-1/2 or HNRNPC. As these U-rich motifs are highly similar, it is challenging to specifically distinguish each signal. Moreover, previous studies have shown that these splicing factors and U2AF2 compete at various splice sites (Sutandy *et al*, 2018; Zarnack *et al*, 2013). Therefore, it is possible that the U2AF2 signal detected in our previous analysis could be attributed to other splicing factors.

In summary, here we demonstrate that RBFOX1 plays a critical role upstream of the mis-splicing signature of HD brains, as a moderate increase of RBFOX1 in forebrain neurons by genetic manipulation of HD mice attenuates mis-splicing and ameliorates their neuropathology and motor symptoms. This study therefore demonstrates that RBFOX1 contributes to HD pathogenesis and suggests that RBFOX1 increasing strategies may represent a new avenue for therapeutic intervention for HD.

Methods

Human brain tissue samples

Brain specimens used in this study from HD patients and controls (CTRL) were provided by Institute of Neuropathology Brain Bank (HUB-ICO-IDIBELL, Hospitalet de Llobregat, Spain), the Neurological Tissue Bank of the IDIBAPS Biobank (Barcelona, Spain*),* the Banco de Tejidos Fundación Cien (BT-CIEN, Madrid, Spain) and the Netherlands Brain Bank (Amsterdam, The Netherlands). Written informed consent for brain removal after death for diagnostic and research purposes was obtained from brain donors and/or their next of kin. Procedures, information and consent forms were reviewed and approved by the Bioethics Subcommittee of Consejo Superior de Investigaciones Científicas (CSIC, Madrid, Spain).

Mice

R6/1 transgenic mice for the human exon-1-Htt gene (Mangiarini *et al*, 1996) were maintained in B6CBAF1 background; CamKII-tTA mouse lines (Mayford *et al*, 1996) were maintained in a pure C57BL/6J background. Mice with transgenic expression of human RBFOX1 or human U2AF2 under a tetracycline-regulated promoter (TgRBFOX1 or TgU2AF2) were generated for this study (for details see 'Generation of TgRBFOX1 and TgU2AF2 mice' below) and were maintained in C57BL/6J background. All animals were bred and housed at the Centro de Biología Molecular Severo Ochoa animal facility. Mice were housed four per cage with food and water available *ad libitum* and maintained in a temperature-controlled environment on a 12/12 h light-dark cycle with light onset at 08:00. Animal housing and maintenance protocols followed the guidelines of Council of Europe Convention ETS123. Animal experiments were performed under Comunidad de Madrid Regional Government protocols (PROEX 293/15 and PROEX 247.1/20) and approved by CSIC's Ethics Committee and Centro de Biología Molecular Severo Ochoa's Committee for Animal Care and Utilization (Comité de Ética de Experimentación Animal del CBM, CEEA-CBM), Madrid, Spain.

Generation of RBFOX1 and U2AF2 transgenic mice

Human RBFOX1 cDNA (from pENTR-A2BP1, Addgene, 16176) or human U2AF2 cDNA (from pCDNA3-U2AF65-DYK, GenScript, OHu17874) were independently cloned into a plasmid containing a bidirectional TetO sequence that also harbors the β-galactosidase (β-Gal) reporter with a NLS (pBI-G, Clontech, 631004). The resulting construct was linearized and microinjected into single-cell C57BL/6JxCBA embryos. This resulted in β-Gal-BiTetO-hRBFOX1 or β-Gal-BiTetO-hU2AF2 founder mice that were backcrossed into a pure C57BL/6J background. These mice were then crossed with CamKII-tTA mice in C57BL/6J background to obtain conditional double transgenic mice with forebrain neuronal expression of hRBFOX1 or hU2AF2 (TgRBFOX1 and TgU2AF2 mice).

Rotarod test

Motor coordination was assessed with an accelerating rotarod apparatus (Ugo Basile, Comerio, Italy). Mice were trained during two consecutive days, the first day with four trials at fixed 4 rpm for 1-min each and the second day with four trials of 2 min (the first minute at 4 rpm and the second minute at 8 rpm). On the third day, rotarod was set to accelerate from 4 to 40 rpm over 5 min and mice were tested in four trials. The latency to fall from the rotarod was measured as a mean of the four accelerating trials.

Tissue preparation for staining

For human samples, formalin-fixed (4%, 24 h), paraffin-embedded tissue from striatum were used. Sections (5-µm thick) were mounted on superfrost-plus tissue slides (Menzel-Gläser) and deparaffinized. For mouse samples, mice were killed using CO2. Brains were quickly extracted and the left hemisphere was immersed in 4% paraformaldehyde overnight. After profuse washing in PBS, hemispheres were immersed in sucrose 30% in PBS for at least 72 h and then included in OCT (Optimum Cutting Temperature compound, Tissue-Tek, Sakura Finetek Europe, ref. 4583), frozen and stored at -80°C until use. Mouse sagittal sections (30 µm thick) were

sequentially cut on a cryostat (Thermo Scientific), collected and stored free floating in glycol-containing solution (30% glycerol, 30% ethylene glycol in 0.02M phosphate buffer) at -20°C.

Immunohistochemistry

For human samples, peroxidase activity was quenched with 0.3% H2O2 in methanol for 30 min, followed by antigen retrieval with 10 mM pH 6.0 citrate buffer heated in microwave for 15 min. For mouse sections, tissues were first washed in PBS and then immersed in 0.3% H2O2 in PBS for 45 min to quench endogenous peroxidase activity. After PBS-washes, sections were immersed for 1 h in blocking solution [PBS containing 0.5% foetal bovine serum, 0.3% Triton X-100 and 1% bovine serum albumin] and incubated overnight at 4 °C with primary antibody diluted in blocking solution. After washing, brain sections were incubated first with biotinylated goat anti-rabbit or anti-mouse secondary antibody and then with avidin-biotin complex using the Elite Vectastain kit (Vector Laboratories, PK-6101 and PK-6102). Chromogen reactions were performed with diaminobenzidine (SIGMAFAST DAB, Sigma, D4293) for 10 min. Mouse sections were mounted on glass slides and coverslipped with Mowiol (Calbiochem, Cat. 475904), while human sections where first dehydrated and then mounted with DePex (SERVA). Images were captured using an Olympus BX41 microscope with an Olympus camera DP-70 (Olympus Denmark A/S). Antibodies: rabbit anti-RBFOX1 (1:5000, Novus, NBP1-90304), rabbit anti-β-Gal (1:2000, Invitrogen, A-11132), rabbit DARPP32 (1:3000, BD, 611520) and rabbit Cleaved caspase-3 (1:100, Cell Signaling, 9661) for mouse samples. Mouse anti-RBFOX1 (1:5000, Merk Millipore, MABE985) for human samples.

Quantification of cleaved caspase-3-positive cells

The total number of immunopositive cells in three sagittal sections (lateral coordinates 1.20, 1.44 and 1.68 mm) was quantified for each animal using an Olympus BX41 microscope with an Olympus camera DP-70 (Olympus Denmark A/S). Mean values per genotype were used for statistical comparison.

Striatal area measurement

The striatal area was measured by Darpp32-positive immunostaining in sagittal sections (1 section/animal) (lateral coordinate 2.64 and 2.16). Images were captured at 2.5x magnification (Canon EOS 450D digital camera) and area quantification was made using ImageJ software. Mean values for each genotype were used for statistical comparison

RNA sequencing and analysis

Mice were killed using CO2 and mouse brains were quickly dissected on an ice-cold plate and the different structures stored at -80°C. Total RNA from forebrain of P5 WT (n=2) and TgRBFOX1 (n=2) mice was isolated using the Maxwell® 16 RSC simplyRNA Tissue Kit (Promega, AS1340). Total RNA was quantified by Qubit® RNA BR Assay kit (Thermo Fisher Scientific) and the RNA Quality number (RQN) was estimated using the Qsep100TM (BiOptic) detecting, on average, a RQN value over 9. Stranded poly(A) enriched libraries were generated and sequenced on a Novaseq X Plus (Novogene) with a read length of 2 x 150 bp, generating at least 100 million reads per sample.

Vertebrate Alternative Splicing and Transcription Tools (VAST-TOOLS) v2.5.1 was used to analyze AS (Irimia *et al.*, 2014). Briefly, reads in FASTQ format were aligned to the mouse junction library (mm10; vastdb.mm2.23.06.20) using align module, and the generated files were joined using the combine module. For differential splicing analysis the module compare was employed with the following parameters: --min_dPSI 10 and –min_range 5.

Reverse transcriptase quantitative and semiquantitative PCR

Retrotranscription reactions were performed using iScript™ Reverse Transcription Supermix for RT-qPCR (Bio-Rad). Relative quantification was carried out for mRNA analysis in striatum of mice (WT and R6/1). qRT-PCR (CFX 384 Biorad) was carried out with 5 ng of cDNA in a volume of 4 µl with 1 µl of 5 µM forward and reverse primers mix and 5 µl of SsoFast EvaGreen Supermix premix (Biorad, CN172-5204). Triplicate reactions were carried out for each mRNA. The following amplification protocol was used: initial denaturation of 5 s at 95 ºC + 40 cycles x [5s at 95 ºC + 5

s at 60 ºC] + [5 s at 60 ºC + 5 s at 95 ºC]. Fluorescence was taken at the end of elongation step. Data were analysed by GenEx 5.3.7 software (Multid AnaLyses AB). The mRNA levels were normalized first relative to total RNA and then relative to the 18S ribosome subunit, β-ACTIN, GAPDH and β-TUBULIN gene expression in each sample.

RBFOX1 transgene and selected events were evaluated with semiquantitative reverse transcription-PCR. cDNA (50 ng) was amplified with specific primers. PCR products were resolved on 2% resolution Metaphor agarose gels (Lonza).

Primers

Mouse primers use in this study are as follows: Rbfox1 Forward 5'- GACCCCTACCACCACACACT -3', Reverse 5'- TCTTGGCATCGGTCAAGG -3'; 18s Forward 5'-CTCAACACGGGAAACCTCAC-3', Reverse 5'- CGCTCCACCAACTAAGAACG-3'; β-actin Forward 5'- CTAAGGCCAACCGTGAAAAG-3', Reverse 5'-ACCAGAGGCATACAGGGACA-3'; Gapdh Forward 5'-CTCCCACTCTTCCACCTTCG-3', Reverse 5'-CATACCAGGAAATGAGCTTGACAA-3'; β-Tubulin Forward 5'-GACCTATCATGGGGACAGTG-3', Reverse 5'- CGGCTCTGGGAACATAGTTT-3'; Synj1 Forward 5'-CCCAGACTCTAGAGCCCAAGA-3', Reverse 5'- GCTTGAGGGGAAGGCTGATTAC-3'; MacF1 Forward 5'-CAGCAGGTGTGGCTGTTAGC-3', Reverse 5'-CCAGACATCAAAGTCAAAGTTGGC-3'; Cadps Forward 5'-ACTGCAACAAAACGAGGAGCA-3', Reverse 5'-TGCATCCATGTCCACTGCAAA-3'; Slc9a5 Forward 5'-GCTGAGGGTGAAGAGGAGTGA-3', Reverse 5'- GCTGATGGCATCTCGGATGTT-3'.

Human primers use in this study are as follows: RBFOX1 Forward 5'-GCCACAGCACGTGTAATGACA-3', Reverse 5'-CCACAACTGGATTCAATTTCCAG-3'; Transgenic RBFOX1 Forward 5'-CCGAAGCGTAAGGCTGAG-3', Reverse 5'-CCCGAATTCCTGCATCAAG-3'; 18S Forward 5'-ATCCATTGGAGGGCAAGTC-3', Reverse 5'-GCTCCCAAGATCCAACTACG-3'; β-TUBULIN Forward 5'-CTTTGTGGAATGGATCCCCA-3', Reverse 5'-GACTGCCATCTTGAGGCCA-3'.

GAPDH and *β-ACTIN* (TATAA Biocenter, qA-01-0101S, qA-01-0104S)

Brain weight

Whole brains were extracted from skulls of 1.5 month-old mice and weighted in a precision scale (Mettler Toledo, AB265-S).

Statistics

Statistical analysis was performed with SPSS 26.0 (SPSS® Statistic IBM®). Data are represented as Mean ± SEM (Standard Error of the Mean). The normality of the data was analysed by Shapiro-Wilk. Homogeneity of variances was analysed by Levene test. For two independent group comparison, two-tailed Student's t-test (data with normal distribution) or Mann-Whitney U-test (data with non-normal distribution) was performed. For multiple comparisons, data were analysed by one-way ANOVA followed by a Tukey's post-hoc test (data with normal distribution) or by Games-Howell post hoc test (data with non-normal distribution). A critical value for significance of $P < 0.05$ was used throughout the study. Regarding overlap between HD mis-spliced genes and RBFOX direct and functional targets, enrichment tests were carried out with two-sided Fisher's exact test.

Data availability

Data are available from the corresponding author upon reasonable request.

Acknowledgements

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Author contribution

AE, DL-M, LM, MS-G and ML-S performed experiments. AE and DL-M analyzed the data. DL-M and MS-G performed bioinformatics. AP and LM contributed to TgRBFOX1 and TgU2AF2 mice lines generation, respectively. M.M.-S. performed behavioral tests on mice. AE and JJL wrote the paper with input from all authors. The order of authorship has been assigned after discussion and voting by all authors.

Disclosure and competing interest:

The authors have declared that no conflicts of interest exist.

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Figure legends:

Figure 1. Generation of transgenic mice with conditional overexpression of RBFOX1 nuclear isoform or U2AF2 in forebrain neurons. (**A**) Mice expressing tTA under control of the CamKII promoter (CamKII-tTA mice) were bred with mice carrying the β-Gal-BiTetO-RBFOX1 or β-Gal-BiTetO-U2AF2 construct to yield TgRBFOX1 (CamKII-tTA:β-Gal-BiTetO-RBFOX1) mice or TgU2AF2 (CamKII-tTA:β-Gal-BiTetO-U2AF2) . (**B**) Immunohistochemistry with anti-RBFOX1 or anti-U2AF2 antibody in sagittal sections from 1.5 month-old WT, TgRBFOX1 or TgU2AF2 mice.

Figure 2. Overexpression of RBFOX1 but not U2AF2 delays HD-associated behaviors in R6/1 mice (**A**) TgRBFOX1 and TgU2AF2 mice lines were bred with R6/1 mice, yielding R6/1+TgRBFOX1 or R6/1+TgU2AF2 which were tested in accelerating rotarod apparatus. (B) Evolution of the percentage of the mean latency to fall in the accelerating rotarod test of control, R6/1 and TgRBFOX1 or TgU2AF2, mice at different ages. Analysis of variance (ANOVA), followed by Tukey´s post-hoc test. Data represent mean ± SEM. (*P <0.05, ** P < 0.01, *** P < 0.001)

Figure 3. Overexpression of RBFOX1 nuclear isoform attenuates Huntington's disease-associated mis-splicing in R6/1 mice. RNA-seq was performed on forebrain of WT (n=2) and TgRBFOX1 P5 mice (n=2), and splicing was analyzed using Vast-tools (**A**) The different types of alternative splicing events with an absolute dPSI > 10 between wild-type and TgRBFOX1 mice (**B**) Venn diagram showing the 21 genes in the intersection between the 245 genes with exons mis-spliced in Huntington's disease[15] and the 332 genes with exons with changes in splicing in TgRBFOX1. (**C**) Representative RT-PCR image and quantification of mis-spliced events in cortex of 3.5-month-old WT (n = 6), R6/1 (n = 7) and R6/1+TgRBFOX1 (n = 6) mice (ANOVA followed by Tukey's or Games-Howell post hoc test; *P < 0.05; **P < 0.01; ***P < 0.001). Graphs show means ± SEM.

Figure 4. Overexpression of RBFOX1 nuclear isoform attenuates striatal atrophy in R6/1 mice. (**A**) Representative images of DARPP32-immunostained striatal (St) area and its quantification in sagittal sections at two different lateral coordinates of the mouse brain atlas for WT (n = 6), R6/1 (n = 7) and R6/1+TgRBFOX1 (n = 6) mice at 3.5 months of age (ANOVA, followed by Tukey's post hoc test; *P < 0.05; ***P < 0.001) (**B**) Representative images showing immunostaining of cleaved caspase-3 (left) and quantification of cleaved caspase-3-positive cells in WT (n = 6), R6/1 (n = 7) and R6/1+TgRBFOX1 (n = 6) mice (right) (ANOVA, followed by Tukey's post hoc test; *P < 0.05; n.s., not significant).

Extended view figure legends:

Figure EV1. Early decrease of Rbfox1 transcripts in mice and nuclear protein isoforms decrease in Huntington's disease mice and Huntington's disease patients. (**A**) Normalized counts of the three RBFOX genes in striatal RNA from 3.5 month-old WT (n=3) and R6/1 mice (n=3) according to RNA-seq datasets in Elorza *et al.*[15] (**B**) Quantification of *Rbfox1* transcript levels by RT-qPCR in striatal RNA from 3.5 month-old WT (n=7) and R6/1 mice (n=7) (Student's t-test; $*P < 0.05$). (**C**) Rbfox1 immunohistochemistry in striatum of 3.5 month-old WT and R6/1 mice. (**E**) Representative RBFOX1 immunohistochemistry staining in striatum of control and HD subjects.

Figure EV2. **β-Gal-BiTetO-RBFOX1 or β-Gal-BiTetO-U2AF2 bred with CamKII-tTA mouse line with higher tTA expression results in TgRBFOX1 and TgU2AF2 mice with microcephaly**. (A) Gel shows RT-PCR amplification of Tg-RBFOX1 or TgU2AF2 mRNA in wild-type, MildTgRBFOX1 or MildTgU2AF2 and StrongTgRBFOX1 or StrongTgU2AF2 mice. (B) Histogram shows brain weight of WT (n=5/n=8), MildTgRBFOX1 (n=7) or MildTgU2AF2 (n=5) and Strong TgRBFOX1 (n=7) or Strong TgU2AF2 (n=6) mice (ANOVA, followed by Tukey's post hoc test; $*P < 0.05$;$**P < 0.01$; $***P < 0.001$).

Figure EV3. Enrichment of RBFOX direct-targets and Rbfox1 functional targets among Huntington's disease striatal mis-splicing signature. (**A**) Venn diagram showing the 83 genes in the intersection between the 245 genes with exons mis-spliced in Huntington's disease[15] and the 543 genes with RBFOX-direct target exons[25] (**B**) Venn diagram showing the 76 genes in the intersection between the 245 genes with exons mis-spliced in Huntington's disease[15] and the 966 genes that are functional targets of Rbfox1 according to Supplementary Table 1. Representation factor (RF) was determined with Two-sided Fisher's Exact test, using as background genes the human-mouse orthologous genes coincidentally detected in the human and mouse RNA-seq datasets used to define the Huntington's disease mis-splicing signature[15] (n = 12,882).

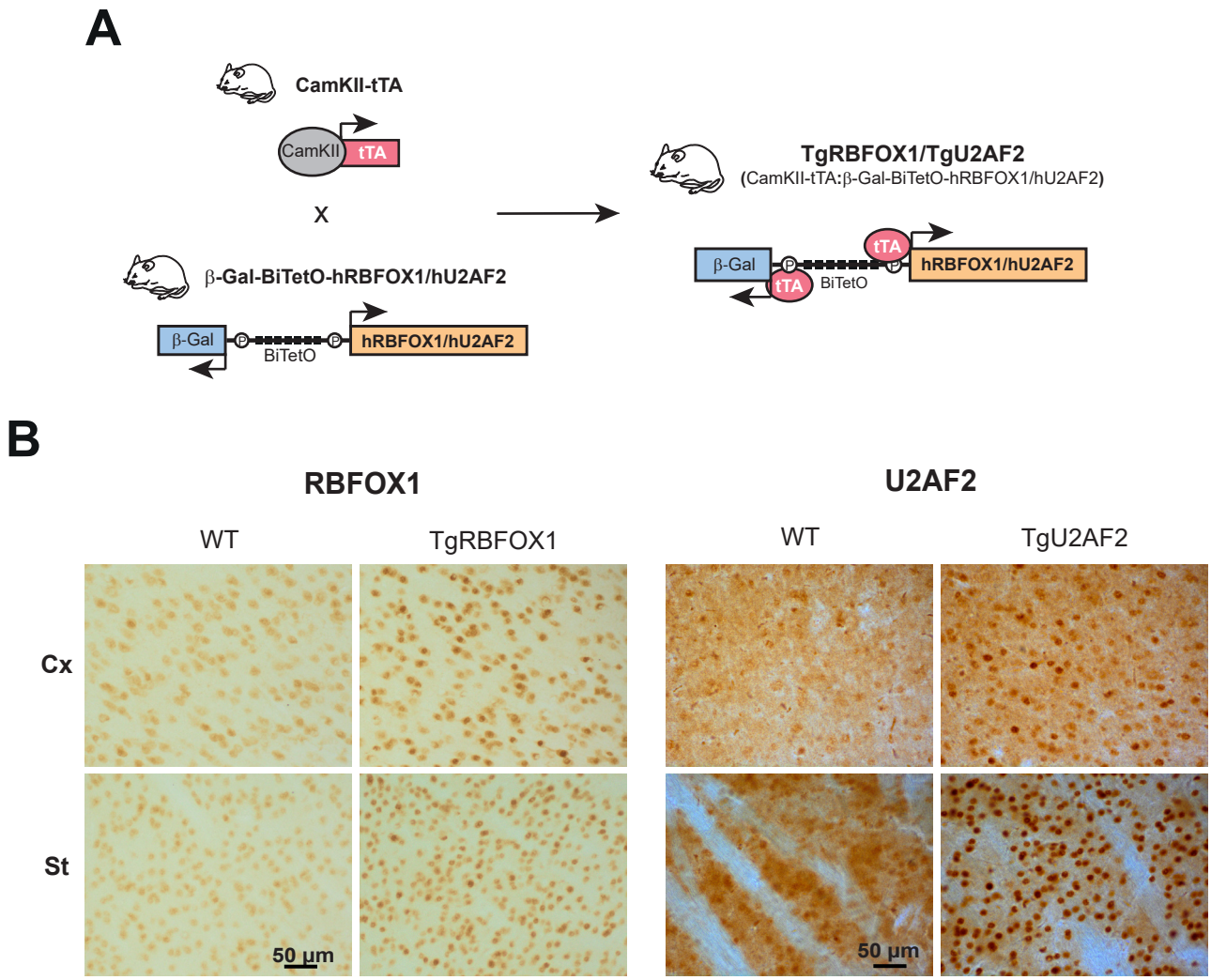
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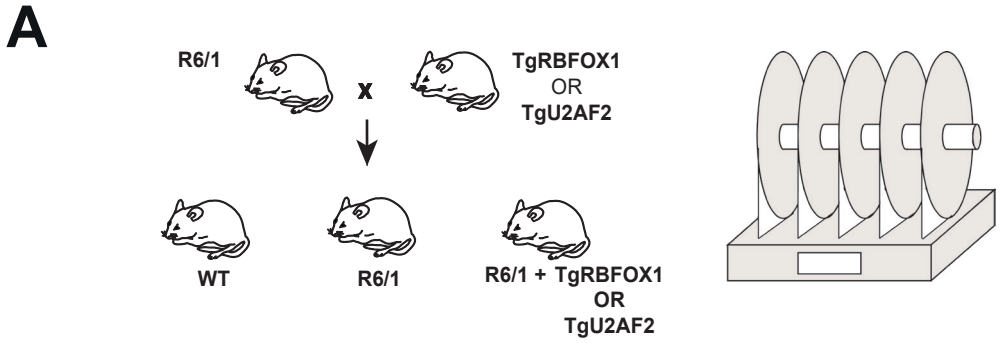
Figure 1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WT
R6/1
R6/1 + TgRBFOX1
OR
TgU2AF2

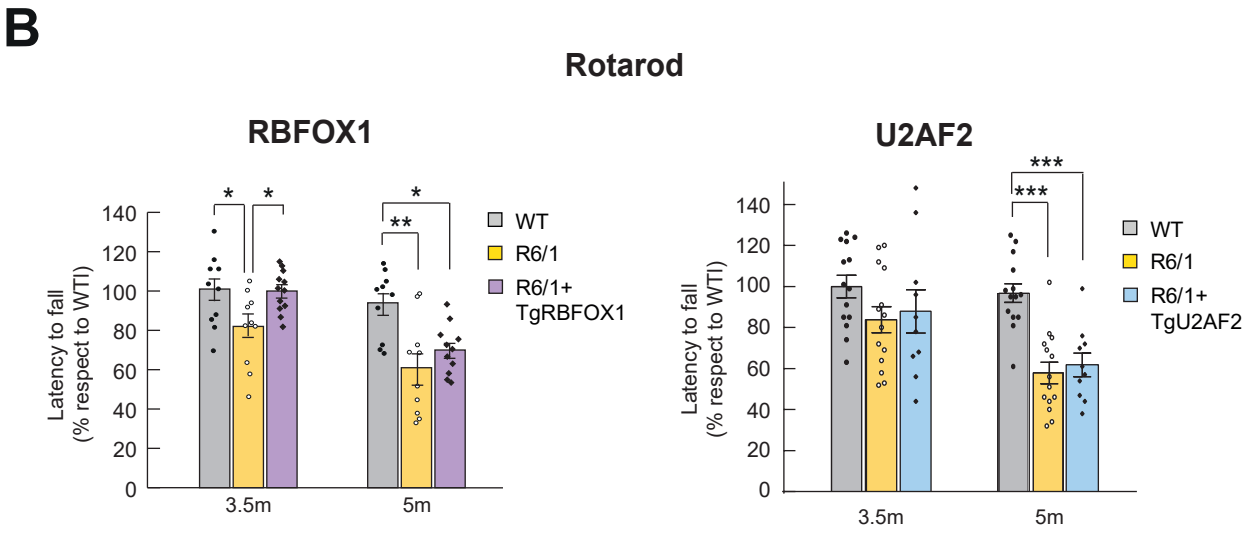
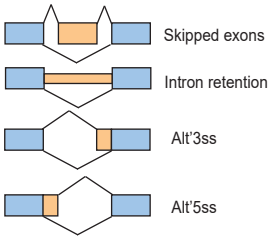

B
Rotarod
RBFOX1
U2AF2
Latency to fall
(% respect to WTI)
140
120
100
80
60
40
20
0
3.5m
5m
*
**
***
WT
R6/1
R6/1+
TgRBFOX1
R6/1+
TgU2AF2

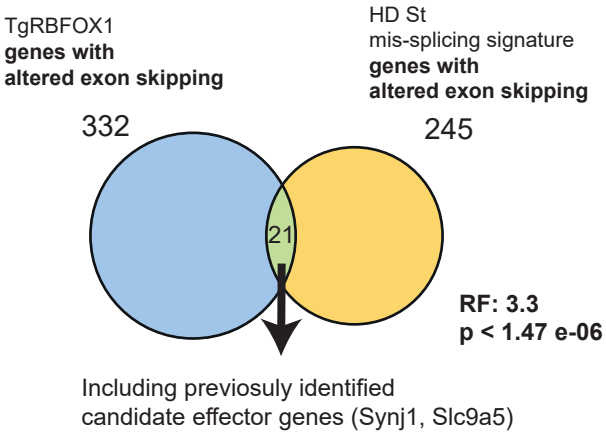
Figure 2

A

Type of AS event	dPSI > |10|
Skipped exons	369
Intron retention	1371
Alt'3ss	130
Alt'5ss	116



B



C

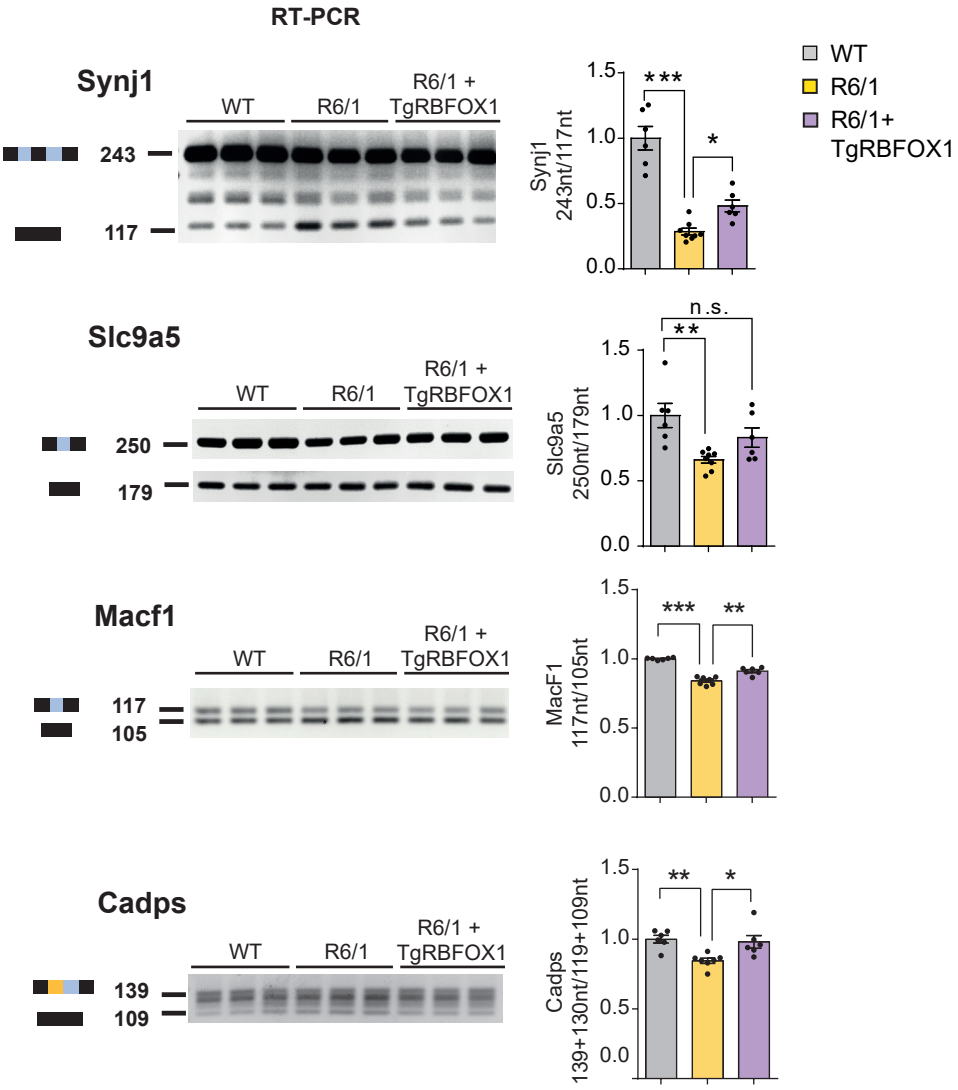


Figure 3

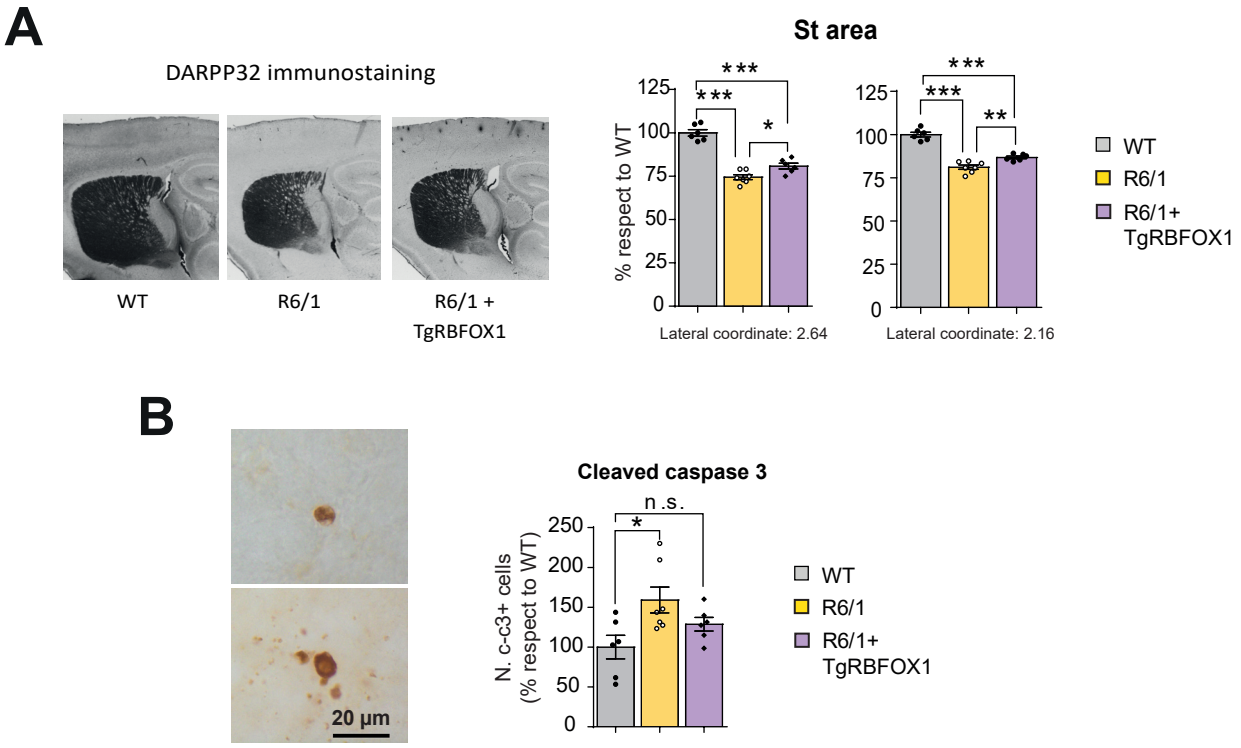

A
DARPP32 immunostaining
WT
R6/1
R6/1 +
TgRBFOX1
St area
% respect to WT
125
100
75
50
25
0
***
***
*
***
***
**
Lateral coordinate: 2.64
Lateral coordinate: 2.16
WT
R6/1
R6/1+
TgRBFOX1
B
20 µm
Cleaved caspase 3
N. c-c3+ cells
(% respect to WT)
250
200
150
100
50
0
n.s.
*
WT
R6/1
R6/1+
TgRBFOX1

Figure 4

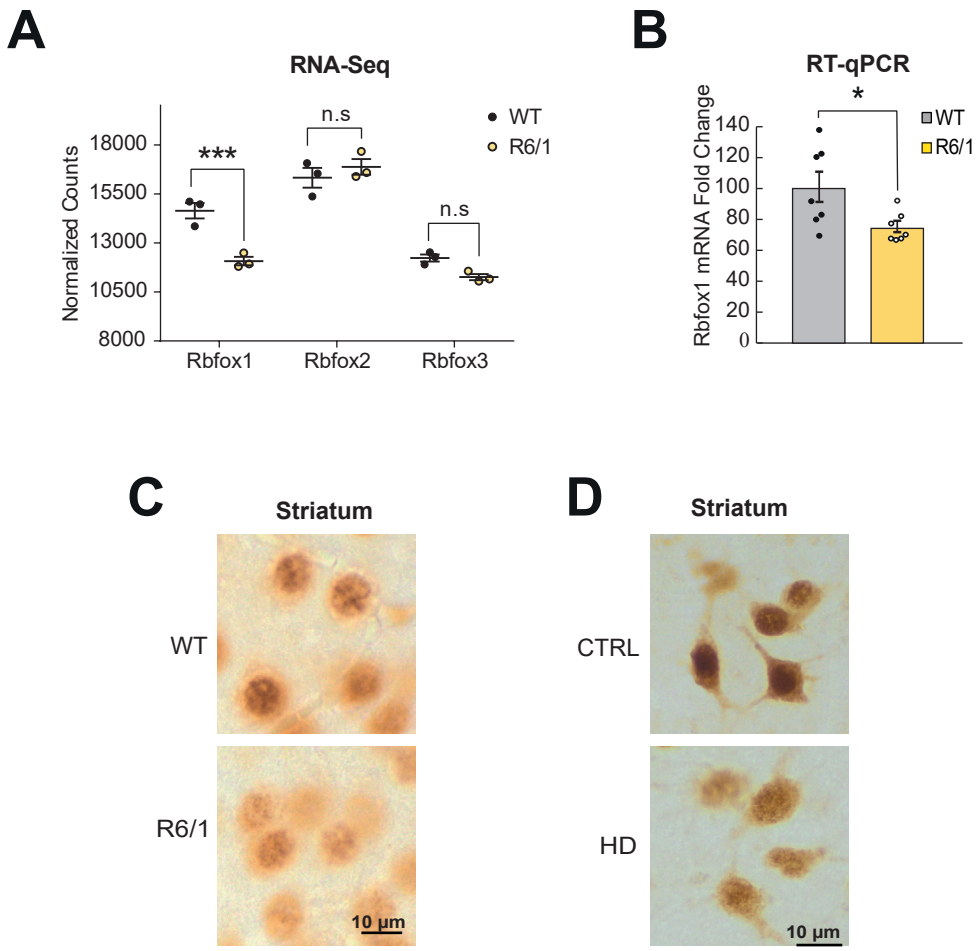

A
RNA-Seq
Normalized Counts
18000
15500
13000
10500
8000
***
n.s
n.s
WT
R6/1
Rbfox1
Rbfox2
Rbfox3
B
RT-qPCR
Rbfox1 mRNA Fold Change
140
120
100
80
60
40
20
0
*
WT
R6/1
C
Striatum
WT
R6/1
10 µm
D
Striatum
CTRL
HD
10 µm

Figure EV1

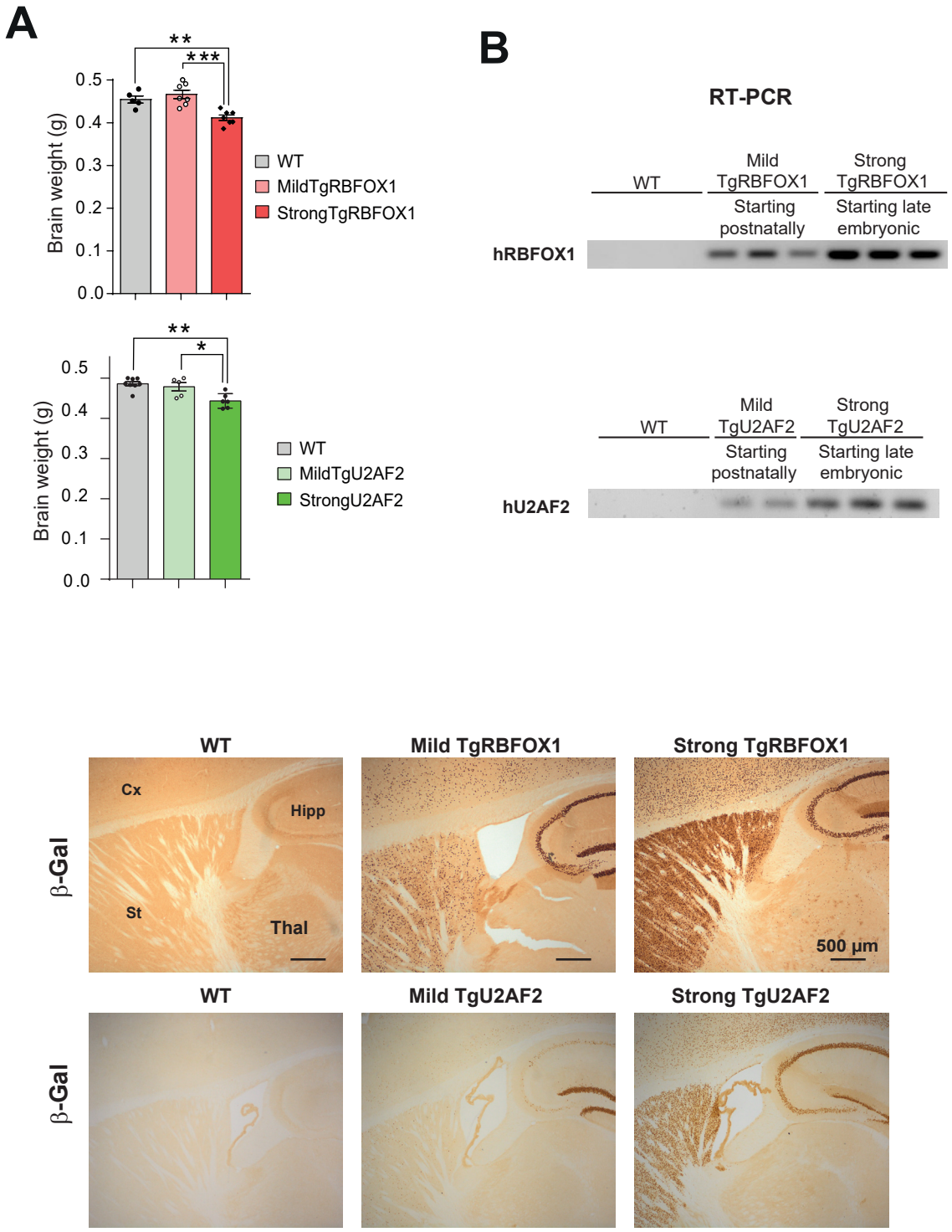

A
Brain weight (g)
0.5
0.4
0.3
0.2
0.1
0.0
**
***
WT
MildTgRBFOX1
StrongTgRBFOX1
Brain weight (g)
0.5
0.4
0.3
0.2
0.1
0.0
**
*
WT
MildTgU2AF2
StrongU2AF2
B
RT-PCR
WT
Mild TgRBFOX1
Strong TgRBFOX1
Starting postnatally
Starting late embryonic
hRBFOX1
WT
Mild TgU2AF2
Strong TgU2AF2
Starting postnatally
Starting late embryonic
hU2AF2
C
WT
Mild TgRBFOX1
Strong TgRBFOX1
β-Gal
Cx
Hipp
St
Thal
500 µm
WT
Mild TgU2AF2
Strong TgU2AF2
β-Gal

Figure EV2

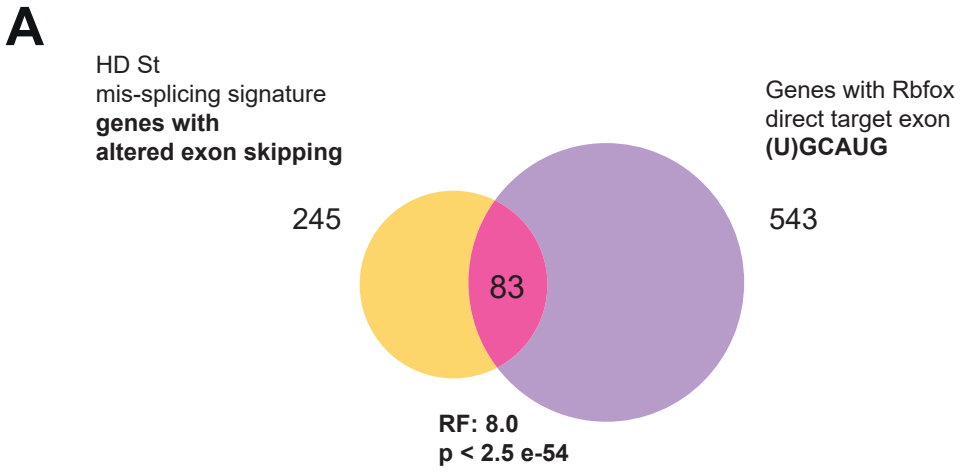

A
HD St
mis-splicing signature
genes with
altered exon skipping
Genes with Rbfox
direct target exon
(U)GCAUG
245
543
83
RF: 8.0
p < 2.5 e-54

Figure EV3

GENE	EVENT	COORD	LENGTH	FullCO	TgRBFOX1_	TgRBFOX1_	TgRBFOX1_	TgRBFOX1_
Brat1	MmuEX00(	chr5:14071	92	chr5:14071	76.4	SOK,SOK,7:	78.45	SOK,SOK,8
Tcf7	MmuEX00	chr11:5225	73	chr11:5225	32.38	OK,OK,31=	23.08	LOW,OK,9=
Rarg	MmuEX10	chr15:1022	161	chr15:1022	52.17	VLOW,VLO	51.85	VLOW,VLO
Clgn	MmuEX00	chr8:83394	116	chr8:83389	8.64	OK,OK,3=4	21.95	LOW,LOW,
Klc4	MmuEX00	chr17:4664	73	chr17:4664	60.33	OK,OK,15=	55.93	OK,OK,22=
Zfp287	MmuEX00	chr11:6272	104	chr11:6272	83.13	OK,OK,24=	73.49	OK,OK,35=
Tep1	MmuEX00	chr14:5083	164	chr14:5083	100	VLOW,VLO	100	LOW,LOW,
Chrd	MmuEX00	chr16:2073	103	chr16:2073	92.52	SOK,SOK,4	88.66	SOK,SOK,7
Aim1l	MmuEX00(	chr4:13409	160	chr4:13409	71.43	VLOW,VLO	41.46	VLOW,VLO
Piezo1	MmuEX00	chr8:12248	62	chr8:12249	62.5	OK,OK,30=	71.07	SOK,SOK,6
Slc9a5	MmuEX00	chr8:10535	71	chr8:10535	29.2	SOK,SOK,5	37.01	SOK,SOK,7
Acsf3	MmuEX00(	chr8:12278	146	chr8:12278	86.59	SOK,SOK,6	86.4	SOK,SOK,9
Notch4	MmuEX00	chr17:3457	146	chr17:3457	100	OK,OK,21=	100	OK,OK,22=
Syt14	MmuEX00	chr1:19289	57	chr1:19290	64	OK,OK,32=	56.25	LOW,LOW,
2810408A1	MmuEX00(	chr11:6989	246	chr11:6989	85.07	OK,OK,24=	89.19	OK,OK,34=
Plek	MmuEX00	chr11:1700	250	chr11:1705	61.29	VLOW,VLO	53.49	VLOW,VLO
Tekt1	MmuEX00	chr11:7235	144	chr11:7235	68.67	OK,OK,22=	62.71	LOW,LOW,
Kif1c	MmuEX00	chr11:7072	22	chr11:7071	22.79	SOK,SOK,2	23.44	SOK,SOK,4
Asgr1	MmuEX00(	chr11:7005	87	chr11:7005	80.95	VLOW,VLO	78.95	VLOW,VLO
9030617O(	MmuEX00(	chr12:1008	151	chr12:1008	64.01	VLOW,VLO	57.34	VLOW,VLO
Cast	MmuEX00(	chr13:7474	57	chr13:7475	27.17	OK,OK,10=	29.82	LOW,OK,1
Btd	MmuEX00(	chr14:3166	132	chr14:3164	97.44	OK,OK,27=	92.21	OK,OK,28=
Ephx2	MmuEX00	chr14:6610	123	chr14:6610	77.78	OK,OK,29=	87.88	OK,OK,33=
Adcy8	MmuEX00(	chr15:6474	90	chr15:6474	88.68	SOK,SOK,1	86.85	SOK,SOK,9
Efhc2	MmuEX00	chrX:17223	139	chrX:17223	86.21	VLOW,VLO	92.31	VLOW,VLO
Pikfyve	MmuEX00	chr1:65192	33	chr1:65192	78.68	LOW,SOK,5	79.95	VLOW,SOK
Prrx1	MmuEX00	chr1:16325	72	chr1:16325	61.16	LOW,LOW,	43.66	OK,OK,16=
Neb	MmuEX00	chr2:52163	114	chr2:52164	22.22	VLOW,VLO	20	OK,OK,7=5
Baz2b	MmuEX00(	chr2:59935	66	chr2:59936	47.76	OK,OK,31=	45.36	SOK,SOK,3
Zdbf2	MmuEX00	chr1:63275	83	chr1:63273	0	VLOW,VLO	0	VLOW,VLO
Postn	MmuEX00	chr3:5438	81	chr3:54377	69.44	OK,OK,25=	61.45	OK,OK,27=
Col11a1	MmuEX00	chr3:11413	16	chr3:11413	76.73	OK,SOK,13	58.58	OK,SOK,8=
Cpne3	MmuEX00	chr4:19539	29	chr4:19540	4.02	OK,OK,1=1	16.58	OK,OK,5=4
Reck	MmuEX00	chr4:43901	41	chr4:4390	23.39	OK,OK,19=	36	OK,OK,35=
Reck	MmuEX00	chr4:4393	177	chr4:4393	15.66	OK,OK,5=8	21.89	OK,OK,9=6
Epha10	MmuEX00	chr4:12489	108	chr4:12489	0	LOW,LOW,	1.96	OK,OK,0=1
Tec	MmuEX00	chr5:72779	66	chr5:72782	51.35	VLOW,VLO	67.21	LOW,LOW,
Caprin2	MmuEX00(	chr6:14886	646	chr6:14887	67.5	OK,OK,29=	72.63	OK,OK,21=
Kcnu1	MmuEX00	chr8:25932	195	chr8:25921	86.05	SOK,SOK,4	80.87	SOK,SOK,4
Jak3	MmuEX00	chr8:71682	33	chr8:71682	100	LOW,OK,1	94.35	OK,SOK,21
Car7	MmuEX00(	chr8:10454	96	chr8:10454	100	VLOW,VLO	100	LOW,LOW,
Htr3a	MmuEX00	chr9:48907	45	chr9:48908	88.24	LOW,LOW,	93.33	OK,OK,23=
Plod2	MmuEX00	chr9:92601	63	chr9:9260	44.93	SOK,SOK,3	38.24	OK,OK,34=
Fras1	MmuEX00	chr5:96588	144	chr5:96573	100	VLOW,VLO	100	LOW,LOW,

Macrod1	MmuEX002	chr19:7197	35	chr19:7197	40.11	VLOW,VLO	30.43	OK,OK,12=
Spg20	MmuEX004	chr3:55124	171	chr3:55121	68.73	OK,OK,32=	75.01	OK,OK,35=
Map4k1	MmuEX002	chr7:28991	44	chr7:28991	100	OK,OK,20=	100	OK,OK,31=
Pafah2	MmuEX003	chr4:13442	83	chr4:13442	86.25	SOK,SOK,4	100	SOK,SOK,6
Rapgef6	MmuEX003	chr11:5465	15	chr11:5464	80.35	OK,SOK,24	81.83	OK,SOK,20
Dlgap5	MmuEX001	chr14:4738	47	chr14:4739	92.59	VLOW,VLO	92.86	VLOW,VLO
Primpol	MmuEX00(	chr8:46613	134	chr8:46616	0	LOW,LOW,	5.88	LOW,LOW,
Zkscan16	MmuEX005	chr4:58943	74	chr4:58943	22.22	VLOW,VLO	20.75	OK,OK,3=8
Scube3	MmuEX004	chr17:2816	148	chr17:2816	34.38	OK,SOK,24	38.55	OK,SOK,34
Gipc2	MmuEX002	chr3:1521(	137	chr3:1521(	0	LOW,LOW,	3.7	OK,OK,1=1
Msantd3	MmuEX00(	chr4:48549	73	chr4:48539	15.15	OK,OK,3=1	13.98	OK,OK,1=1
Ddx58	MmuEX001	chr4:40227	148	chr4:40229	100	VLOW,VLO	100	VLOW,VLO
Sh3pxd2b	MmuEX004	chr11:324(	84	chr11:324(	63.88	SOK,SOK,5	67.69	SOK,SOK,5
Bag2	MmuEX00(	chr1:33748	110	chr1:33757	78.75	SOK,SOK,4	77.68	SOK,SOK,8
Gpr149	MmuEX102	chr3:6255(	147	chr3:62594	2.63	OK,OK,1=1	6.67	OK,OK,2=4
Adamts6	MmuEX00(	chr13:1043	146	chr13:1043	75.76	VLOW,VLO	68.18	LOW,LOW,
C77370	MmuEX00(	chrX:10409	56	chrX:1042(	85.71	OK,OK,51=	85.96	SOK,SOK,5
Vwa5b2	MmuEX005	chr16:2059	62	chr16:2059	68.99	SOK,SOK,4	75	SOK,SOK,5
Dlgap2	MmuEX001	chr8:14179	99	chr8:14096	80	VLOW,VLO	91.67	VLOW,VLO
Arid4a	MmuEX10(	chr12:7104	149	chr12:7104	56.13	SOK,SOK,0	66.37	LOW,LOW,
Tmc8	MmuEX004	chr11:1177	83	chr11:1177	23.53	VLOW,VLO	26.32	VLOW,VLO
F730043M	MmuEX10(	chr12:3313	79	chr12:3314	0.85	OK,OK,1=0	1.12	OK,OK,0=2
Actn2	MmuEX00(	chr13:1229	86	chr13:123(	57.32	SOK,SOK,5	57.21	SOK,SOK,7
Actn2	MmuEX00(	chr13:123(	79	chr13:123(	94.35	SOK,SOK,9	96.28	SOK,SOK,1
Nav2	MmuEX003	chr7:49575	9	chr7:49572	38.04	SOK,SOK,1	44.19	SOK,SOK,2
Plekhg3	MmuEX003	chr12:7656	22	chr12:7656	0	LOW,LOW,	0	OK,OK,0=0
Med12l	MmuEX002	chr3:59092	105	chr3:59091	82.61	SOK,SOK,3	80.43	OK,OK,28=
Adgrf5	MmuEX002	chr17:4343	56	chr17:4343	64.71	OK,OK,50=	51.52	SOK,SOK,4
Pign	MmuEX003	chr1:10565	91	chr1:10565	76.58	OK,OK,40=	89.18	OK,OK,24=
Acbd4	MmuEX00(	chr11:1031	121	chr11:1031	56.19	OK,OK,47=	66.47	SOK,SOK,7
Zfp930	MmuEX005	chr8:69226	58	chr8:69226	61	OK,OK,22=	55.4	VLOW,LOW
Alms1	MmuEX00(	chr6:85615	156	chr6:8561(	82.86	LOW,LOW,	91.11	OK,OK,20=
Slc31a2	MmuEX004	chr4:62295	190	chr4:62292	81.44	OK,OK,32=	77.24	SOK,SOK,4
Trim12a	MmuEX004	chr7:1043(	96	chr7:1043(	100	LOW,LOW,	100	LOW,LOW,
Arhgef10	MmuEX00(	chr8:14942	117	chr8:1494(	88.76	OK,OK,36=	93.62	OK,OK,49=
Fam189a2	MmuEX101	chr19:2397	878	chr19:2397	42.18	SOK,SOK,1	40.61	SOK,SOK,2
Fndc1	MmuEX001	chr17:7784	99	chr17:7788	100	VLOW,VLO	100	LOW,LOW,
Bhlhb9	MmuEX002	chrX:13584	62	chrX:13584	38.67	OK,OK,20=	37.31	OK,OK,17=
Wdr90	MmuEX005	chr17:2585	95	chr17:2585	71.15	OK,OK,25=	73.58	OK,OK,39=
Sh3d21	MmuEX00(	chr4:12616	91	chr4:12616	26.67	VLOW,VLO	26.67	VLOW,VLO
Ttll9	MmuEX004	chr2:15298	186	chr2:15298	42.17	OK,OK,20=	39.29	LOW,LOW,
Prkcg	MmuEX003	chr7:33141	88	chr7:33138	84.02	SOK,SOK,5	89.46	SOK,SOK,6
Gm4969	MmuEX002	chr7:19102	71	chr7:19103	66.67	OK,OK,20=	67.06	OK,OK,37=
Gm13563	MmuEX002	chr2:26388	151	chr2:26387	31.81	OK,OK,7=1	33.98	VLOW,VLO
Lhx1os	MmuEX00(	chr11:8453	74	chr11:8452	30.12	OK,OK,3=2	36.11	OK,OK,9=1

Itga10	MmuEX002	chr3:96656	77	chr3:96656	83.14	VLOW,VLO	84.49	VLOW,VLO
Gm44210	MmuEX101	chr6:87730	156	chr6:87730	28.3	LOW,LOW,	24.24	OK,OK,9=7
Gm44643	MmuEX101	chr7:60939	126	chr7:60961	8.57	LOW,LOW,	2.22	OK,OK,0=1
Pemt	MmuEX003	chr11:6003	108	chr11:6004	61.92	OK,OK,22=	72.45	OK,OK,33=
Ltbp1	MmuEX002	chr17:7535	144	chr17:7532	76	VLOW,VLO	85.19	OK,OK,22=
Spa17	MmuEX004	chr9:37611	183	chr9:37613	69.23	OK,OK,23=	72.92	OK,OK,27=
Spa17	MmuEX004	chr9:37607	71	chr9:37613	79.13	OK,OK,32=	79.35	SOK,SOK,4
Ap4e1	MmuEX00	chr2:12704	78	chr2:12704	72.69	SOK,SOK,4	64.63	SOK,SOK,4
Hdac9	MmuEX101	chr12:3477	81	chr12:3482	27.83	VLOW,VLO	22.59	OK,OK,6=7
Spc25	MmuEX004	chr2:69205	53	chr2:69206	28.12	OK,OK,3=1	43.75	LOW,LOW,
Tmem110	MmuEX004	chr14:3086	49	chr14:3082	90.91	OK,OK,39=	89.58	OK,OK,35=
Rbfox1	MmuEX003	chr16:7391	53	chr16:7375	37.05	SOK,SOK,2	22.36	SOK,SOK,2
Med15	MmuEX002	chr16:1766	120	chr16:1767	53.43	SOK,SOK,8	57.78	SOK,SOK,1
Tbp	MmuEX004	chr17:1550	49	chr17:1550	50	SOK,SOK,4	62.16	SOK,SOK,6
Galns	MmuEX001	chr8:12259	103	chr8:12259	61.11	OK,OK,20=	42.86	OK,OK,18=
Mtmr1	MmuEX003	chrX:71376	24	chrX:71369	27.86	LOW,LOW,	24.28	LOW,LOW,
Cacna1d	MmuEX00	chr14:3017	104	chr14:3017	44.02	SOK,SOK,3	42.32	SOK,SOK,4
Cacna1d	MmuEX00	chr14:3017	104	chr14:3017	57.58	SOK,SOK,4	56.97	SOK,SOK,5
Shroom1	MmuEX004	chr11:5346	189	chr11:5346	63.52	OK,OK,25=	51.85	OK,OK,25=
Cep57l1	MmuEX001	chr10:4172	44	chr10:4172	24.59	OK,OK,11=	26.32	OK,OK,8=7
P4ha1	MmuEX003	chr10:5935	71	chr10:5935	60.43	SOK,SOK,9	65.17	SOK,SOK,9
Slc22a4	MmuEX004	chr11:5400	155	chr11:5402	96.18	OK,OK,15=	100	OK,OK,18=
Slc25a19	MmuEX004	chr11:1156	170	chr11:1156	81.79	SOK,SOK,1	78.37	SOK,SOK,1
Recql5	MmuEX003	chr11:1158	100	chr11:1158	80.35	OK,OK,42=	77.66	SOK,SOK,4
Abcd4	MmuEX00	chr12:8461	57	chr12:8461	20	LOW,LOW,	16.28	LOW,LOW,
Fdft1	MmuEX001	chr14:6315	122	chr14:6317	30.43	OK,OK,7=1	31.25	OK,OK,3=1
Trpc7	MmuEX004	chr13:5683	165	chr13:5686	57.14	VLOW,VLO	75.76	VLOW,VLO
Vcan	MmuEX005	chr13:8970	2880	chr13:8971	75.81	SOK,SOK,1	74	SOK,SOK,8
Pde8b	MmuEX003	chr13:9508	141	chr13:9509	67.21	SOK,SOK,4	77.08	OK,OK,38=
Nudt13	MmuEX003	chr14:2031	99	chr14:2030	74.72	OK,SOK,34	71.99	SOK,SOK,4
Phf7	MmuEX003	chr14:3124	160	chr14:3124	54.55	LOW,LOW,	66.15	LOW,LOW,
Xpo4	MmuEX005	chr14:5760	178	chr14:5760	76	OK,OK,33=	73.91	OK,OK,32=
Zdhhc20	MmuEX005	chr14:5785	36	chr14:5785	55.16	OK,OK,21=	51.6	OK,OK,19=
Naa16	MmuEX003	chr14:7935	117	chr14:7935	27.87	OK,OK,8=9	27.27	OK,OK,10=
Zfat	MmuEX005	chr15:6818	186	chr15:6821	89.54	LOW,LOW,	91.47	OK,OK,23=
Zfat	MmuEX005	chr15:6818	151	chr15:6818	89.8	LOW,LOW,	88.47	LOW,LOW,
Zfat	MmuEX005	chr15:6817	233	chr15:6817	85.19	OK,OK,27=	92.73	OK,OK,25=
Bbx	MmuEX00	chr16:5025	81	chr16:5026	91.15	VLOW,VLO	85.71	VLOW,LOW
Prkdc	MmuEX003	chr16:1573	141	chr16:1573	82.29	LOW,LOW,	87.43	LOW,LOW,
Ccdc191	MmuEX00	chr16:4394	461	chr16:4393	85.19	VLOW,VLO	90	VLOW,VLO
Dlg1	MmuEX001	chr16:3177	99	chr16:3174	45.16	SOK,SOK,2	49.49	OK,OK,34=
Pdia5	MmuEX003	chr16:3542	137	chr16:3542	79.69	SOK,SOK,6	88.71	SOK,SOK,5
Masp1	MmuEX101	chr16:2347	327	chr16:2348	73.75	SOK,SOK,1	70.37	SOK,SOK,1
Synj1	MmuEX004	chr16:9094	48	chr16:9095	66.46	SOK,SOK,1	61.44	SOK,SOK,1
Synj1	MmuEX004	chr16:9094	39	chr16:9095	75.68	SOK,SOK,1	72.85	SOK,SOK,1

Fmnl3	MmuEX00	chr15:9932	83	chr15:9932	43.4	OK,OK,27=	34.33	OK,OK,27=
Csad	MmuEX00	chr15:1022	79	chr15:1022	80.25	OK,OK,15=	76.79	OK,OK,17=
Aars2	MmuEX00	chr17:4551	109	chr17:4551	80.08	SOK,SOK,4	82.35	SOK,SOK,6
Aars2	MmuEX00	chr17:4551	143	chr17:4551	10.47	OK,OK,14=	9.29	SOK,SOK,1
Ubr2	MmuEX00	chr17:4698	99	chr17:4698	30.26	OK,OK,23=	30.23	OK,OK,25=
Lims2	MmuEX00	chr18:3194	67	chr18:3194	83.33	VLOW,VLO	92.31	VLOW,VLO
Htr7	MmuEX00	chr19:3596	756	chr19:3605	66.38	SOK,SOK,5	67.12	SOK,SOK,6
Sfxn2	MmuEX00	chr19:4659	61	chr19:4658	82.56	OK,OK,18=	90.87	LOW,LOW,
Dhtkd1	MmuEX00	chr2:59229	48	chr2:59238	74.38	VLOW,VLO	68.14	LOW,LOW,
Sntg1	MmuEX00	chr1:92493	92	chr1:92981	14.18	OK,OK,6=1	4.31	OK,OK,2=1
Tor1aip1	MmuEX00	chr1:15601	56	chr1:15602	1.79	OK,OK,2=0	0	OK,OK,0=0
Coq8a	MmuEX00	chr1:18017	93	chr1:18018	29.73	VLOW,VLO	30.61	LOW,LOW,
Efcab2	MmuEX00	chr1:17843	308	chr1:1784	3.45	VLOW,VLO	5.56	LOW,LOW,
Nuf2	MmuEX00	chr1:16952	76	chr1:16953	74.07	LOW,LOW,	80.95	LOW,LOW,
Spopl	MmuEX00	chr2:23541	97	chr2:23543	37.31	OK,OK,18=	29.82	OK,OK,11=
Fibcd1	MmuEX00	chr2:31838	474	chr2:31845	73.33	LOW,LOW,	75.9	OK,OK,45=
Fibcd1	MmuEX00	chr2:31833	137	chr2:31834	76.74	LOW,LOW,	65.12	OK,OK,21=
Baz2b	MmuEX00	chr2:59983	189	chr2:60001	82.46	OK,OK,20=	75	LOW,LOW,
Lamp5	MmuEX00	chr2:13605	106	chr2:13605	76.47	OK,OK,35=	85.71	OK,OK,38=
Ubox5	MmuEX00	chr2:13062	147	chr2:13062	34.81	OK,SOK,21	49.3	OK,SOK,25
Zdbf2	MmuEX00	chr1:6329	103	chr1:6328	70.37	OK,OK,18=	72.88	OK,OK,18=
Fbxw7	MmuEX00	chr3:84864	64	chr3:84864	52.73	OK,OK,27=	49.12	OK,OK,25=
Mttp	MmuEX00	chr3:13813	95	chr3:13814	83.78	LOW,LOW,	84.64	LOW,LOW,
Wdr31	MmuEX00	chr4:62458	68	chr4:6246	81.82	OK,OK,28=	82.5	OK,OK,32=
Tpm2	MmuEX00	chr4:43518	76	chr4:43519	55	OK,OK,22=	46.48	SOK,SOK,3
Caap1	MmuEX00	chr4:9455	85	chr4:94551	80.67	OK,OK,34=	89.87	OK,OK,30=
Caap1	MmuEX00	chr4:94549	76	chr4:94551	79.03	OK,OK,30=	82.37	OK,OK,34=
Cyb5rl	MmuEX00	chr4:10707	105	chr4:10707	63.64	VLOW,VLO	73.33	VLOW,VLO
Phc2	MmuEX00	chr4:12871	87	chr4:1287	100	OK,OK,28=	100	OK,OK,28=
Cd164l2	MmuEX00	chr4:13322	45	chr4:13322	100	VLOW,VLO	100	VLOW,VLO
Dffb	MmuEX00	chr4:15397	57	chr4:15397	38.82	OK,OK,21=	30.43	OK,OK,25=
Nsun7	MmuEX00	chr5:66278	211	chr5:66276	92.41	OK,OK,30=	92.16	OK,OK,20=
Cdc7	MmuEX00	chr5:10697	96	chr5:10697	45.32	SOK,SOK,3	39.83	SOK,SOK,6
Stx2	MmuEX00	chr5:12898	28	chr5:12899	36.49	OK,OK,6=2	44.31	OK,OK,15=
Dhx37	MmuEX00	chr5:12542	181	chr5:12542	17.39	OK,OK,17=	19.73	OK,OK,16=
Luc7l2	MmuEX00	chr6:38571	47	chr6:38551	97.62	OK,OK,36=	95.74	OK,OK,34=
C2cd5	MmuEX00	chr6:14307	125	chr6:14307	42.83	SOK,SOK,2	49.18	SOK,SOK,3
Disp1	MmuEX10	chr1:18317	109	chr1:1832	86.91	LOW,LOW,	78.77	OK,OK,21=
2610020H	MmuEX00	chr7:11984	79	chr7:11984	84	VLOW,VLO	83.33	LOW,LOW,
2610020H	MmuEX00	chr7:11984	119	chr7:11984	74.36	LOW,LOW,	65.71	VLOW,VLO
Ano1	MmuEX10	chr7:14464	174	chr7:14465	3.23	LOW,LOW,	10.2	OK,OK,2=3
Pbdc1	MmuEX10	chrX:10511	112	chrX:10508	55.37	OK,OK,44=	53.4	OK,OK,26=
Galnt7	MmuEX00	chr8:57542	157	chr8:57545	77.21	OK,OK,21=	79.38	OK,OK,21=
Cenpu	MmuEX00	chr8:46569	109	chr8:46568	76.47	LOW,LOW,	76.47	LOW,LOW,
Slc10a7	MmuEX00	chr8:78525	137	chr8:78515	86.4	OK,OK,23=	92.79	OK,OK,33=

Slc10a7	MmuEX00	chr8:78531	76	chr8:78525	78.92	VLOW,VLO	81.44	OK,OK,23=
Slc10a7	MmuEX00	chr8:78706	74	chr8:78698	75.38	OK,OK,22=	85.71	OK,OK,17=
Adat1	MmuEX00	chr8:11197	100	chr8:11197	54.52	LOW,LOW,	63.22	OK,OK,25=
Rab27a	MmuEX00	chr9:73075	175	chr9:73045	88	OK,OK,22=	91.3	VLOW,VLO
Mlip	MmuEX00	chr9:77216	72	chr9:77229	20	SOK,SOK,2	21.29	OK,OK,22=
Csnk1g1	MmuEX00	chr9:65950	49	chr9:65909	52.48	OK,OK,13=	59.44	LOW,LOW,
Trip4	MmuEX00	chr9:65898	152	chr9:65908	15.94	OK,OK,11=	23.08	LOW,LOW,
Ube2cbp	MmuEX00	chr9:86451	197	chr9:86464	91.67	VLOW,VLO	94.29	LOW,LOW,
Ube2cbp	MmuEX00	chr9:86448	91	chr9:86464	90.91	VLOW,VLO	93.33	VLOW,VLO
Kif9	MmuEX10	chr9:11052	300	chr9:11052	41.38	LOW,LOW,	32.39	OK,OK,23=
Hemk1	MmuEX00	chr9:10733	311	chr9:10733	81.54	LOW,LOW,	76.74	OK,OK,19=
Abcc10	MmuEX00	chr17:4631	56	chr17:4631	55.97	OK,OK,24=	58.88	OK,OK,29=
Gtf2a2	MmuEX00	chr9:70015	170	chr9:70012	31.06	LOW,LOW,	16.37	VLOW,VLO
Zdhhc15	MmuEX00	chrX:10458	121	chrX:10459	67.8	VLOW,VLO	79.49	LOW,LOW,
Zfp551	MmuEX00	chr7:12418	124	chr7:12421	54.67	OK,OK,16=	39.31	LOW,LOW,
Hmgxb4	MmuEX00	chr8:74998	104	chr8:74993	52.11	OK,OK,23=	59.61	OK,OK,32=
2700049A0	MmuEX00	chr12:7121	155	chr12:7119	36.36	OK,OK,20=	36.94	OK,OK,22=
Secisbp2	MmuEX00	chr13:5167	42	chr13:5167	85.29	SOK,SOK,6	86.74	SOK,SOK,8
Ptprh	MmuEX00	chr7:45526	135	chr7:45541	95.56	OK,OK,27=	100	LOW,LOW,
Prkx	MmuEX00	chrX:77771	96	chrX:77773	63.27	SOK,SOK,5	68.42	SOK,SOK,4
Surf6	MmuEX00	chr2:26891	735	chr2:26899	92.86	LOW,LOW,	86.99	LOW,LOW,
Etl4	MmuEX00	chr2:20805	78	chr2:20798	8	OK,OK,6=6	6.15	OK,OK,0=1
Ccdc148	MmuEX00	chr2:59009	104	chr2:59017	21.74	OK,OK,9=6	34.78	OK,OK,16=
Tbc1d9b	MmuEX00	chr11:5016	51	chr11:5016	55.34	SOK,SOK,1	67.68	SOK,SOK,1
Zfp280c	MmuEX10	chrX:48592	35	chrX:48594	20	VLOW,VLO	18.52	OK,OK,1=7
Pml	MmuEX00	chr9:58230	138	chr9:58233	23.33	OK,OK,8=6	24.64	OK,OK,11=
Ralgapa2	MmuEX00	chr2:14635	59	chr2:14635	44.9	OK,OK,15=	42.14	OK,OK,10=
Pafah2	MmuEX00	chr4:13440	97	chr4:13440	44	OK,OK,15=	34.88	OK,OK,8=2
Rcor3	MmuEX00	chr1:19210	116	chr1:19210	47.86	OK,OK,54=	46.31	OK,OK,60=
Rcor3	MmuEX10	chr1:19210	62	chr1:19210	63.11	SOK,SOK,2	61.06	SOK,SOK,0
Fbxo34	MmuEX00	chr14:4750	182	chr14:4750	17.07	LOW,LOW,	30.23	LOW,LOW,
Zdhhc18	MmuEX00	chr4:13360	78	chr4:13360	73.33	SOK,SOK,5	62.65	SOK,SOK,1
N4bp2	MmuEX00	chr5:65788	89	chr5:65786	44.63	OK,OK,20=	45.3	OK,OK,23=
Fdxacb1	MmuEX00	chr9:50768	157	chr9:50768	100	OK,OK,18=	96.43	LOW,LOW,
Aim2	MmuEX00	chr1:17342	140	chr1:17342	69.49	LOW,LOW,	72.41	LOW,LOW,
Aim2	MmuEX10	chr1:17345	328	chr1:17345	36.84	LOW,OK,0=	44.92	VLOW,OK,
Chchd5	MmuEX00	chr2:12913	137	chr2:12912	69.98	SOK,SOK,3	76.02	SOK,SOK,2
Cntln	MmuEX00	chr4:84947	85	chr4:84888	82.22	OK,OK,16=	81.82	LOW,LOW,
Atp13a4	MmuEX00	chr16:2941	73	chr16:2941	83.05	OK,OK,17=	82.22	LOW,LOW,
Primpol	MmuEX00	chr8:46586	109	chr8:46586	84.67	LOW,LOW,	94.32	VLOW,VLO
Trpm4	MmuEX00	chr7:45327	175	chr7:45333	32.06	SOK,SOK,2	26.18	SOK,SOK,3
Arl5c	MmuEX00	chr11:9799	152	chr11:9799	84.62	OK,OK,19=	91.84	OK,OK,20=
Kif16b	MmuEX00	chr2:14274	83	chr2:14275	100	OK,OK,35=	94.34	LOW,LOW,
Rnf146	MmuEX00	chr10:2936	61	chr10:2936	29.6	SOK,SOK,1	32.72	SOK,SOK,1
Akap7	MmuEX10	chr10:2523	42	chr10:2523	30.95	OK,OK,0=2	25.27	OK,OK,0=2

Cdk5rap2	MmuEX00	chr4:70383	71	chr4:70401	14.29	VLOW,VLO	5	LOW,LOW,
Rbms3	MmuEX00	chr9:11662	48	chr9:11663	71.83	OK,OK,24=	82.61	OK,OK,27=
Nhsl1	MmuEX00	chr10:1851	132	chr10:1851	21.21	OK,OK,14=	22.35	SOK,SOK,1
Mcph1	MmuEX00	chr8:18788	238	chr8:18689	80.7	SOK,SOK,4	84.09	OK,OK,36=
Gsap	MmuEX00	chr5:21225	165	chr5:21222	3.12	OK,OK,0=2	17.65	OK,OK,7=2
Cfap69	MmuEX00	chr5:56189	122	chr5:56191	85.49	OK,OK,17=	86.6	OK,OK,25=
Ripk2	MmuEX00	chr4:16131	124	chr4:16132	43.59	VLOW,VLO	33.33	VLOW,VLO
Klf8	MmuEX00	chrX:15336	188	chrX:15335	63.11	OK,OK,22=	62.64	OK,OK,18=
Slc39a11	MmuEX00	chr11:1135	151	chr11:1136	22.35	OK,OK,8=1	26.73	OK,OK,12=
Kirrel	MmuEX00	chr3:8714	143	chr3:87174	90	OK,OK,29=	73.91	LOW,LOW,
Zfp451	MmuEX00	chr1:33786	126	chr1:33805	85.19	OK,OK,36=	73.23	SOK,SOK,4
Zfp532	MmuEX10	chr18:6558	175	chr18:6558	51.72	VLOW,VLO	50	LOW,LOW,
Zfp532	MmuEX10	chr18:6558	83	chr18:6558	14.58	OK,OK,3=1	16.52	OK,OK,0=1
Zmym4	MmuEX00	chr4:1269	151	chr4:12691	73.23	SOK,SOK,1	73.52	SOK,SOK,1
Eml6	MmuEX00	chr11:299	160	chr11:3002	72.58	OK,OK,37=	78.56	OK,OK,27=
Nxpe4	MmuEX00	chr9:48354	101	chr9:48233	82.46	VLOW,VLO	91.49	LOW,LOW,
Sys1	MmuEX10	chr2:16446	388	chr2:16446	85.89	SOK,SOK,2	82.05	SOK,SOK,2
Tmem268	MmuEX00	chr4:63568	108	chr4:63565	74.63	OK,OK,20=	81.6	VLOW,VLO
Tmem268	MmuEX00	chr4:63569	150	chr4:63568	67.99	LOW,LOW,	71.98	VLOW,VLO
Fut10	MmuEX00	chr8:31188	105	chr8:31187	24.14	VLOW,VLO	22.45	LOW,LOW,
Mipol1	MmuEX00	chr12:573	207	chr12:5723	100	VLOW,VLO	100	VLOW,VLO
Akap10	MmuEX00	chr11:619	80	chr11:619	100	SOK,SOK,4	96.33	SOK,SOK,5
Akap10	MmuEX00	chr11:619	95	chr11:619	100	SOK,SOK,6	96.52	SOK,SOK,5
Col6a3	MmuEX00	chr1:90815	585	chr1:9083	96.42	OK,OK,26=	93.99	LOW,LOW,
Cfap46	MmuEX00	chr7:13965	125	chr7:13965	76.92	VLOW,VLO	100	VLOW,VLO
Ccdc171	MmuEX00	chr4:83635	103	chr4:8362	80.95	VLOW,VLO	84	VLOW,VLO
Nebl	MmuEX00	chr2:17393	111	chr2:17529	6.63	OK,SOK,8=	13.39	SOK,SOK,1
Nebl	MmuEX00	chr2:17392	111	chr2:17529	7.62	OK,SOK,4=	9.81	OK,SOK,10
Nebl	MmuEX00	chr2:1739	105	chr2:17529	15.33	SOK,SOK,1	12.13	SOK,SOK,1
Nebl	MmuEX00	chr2:17388	93	chr2:17529	14.74	SOK,SOK,2	17.3	SOK,SOK,1
Nebl	MmuEX00	chr2:17379	93	chr2:17529	11.5	OK,SOK,10	17.04	SOK,SOK,2
Ptrh1	MmuEX00	chr2:32777	266	chr2:32776	35.63	OK,OK,29=	50	VLOW,VLO
Nsd3	MmuEX00	chr8:25691	147	chr8:25683	63.5	SOK,SOK,5	56.76	OK,OK,30=
Atp5s	MmuEX00	chr12:6973	111	chr12:6972	56.36	SOK,SOK,6	64.16	SOK,SOK,4
Aasdh	MmuEX00	chr5:76904	54	chr5:76905	41.67	VLOW,VLO	44.19	VLOW,VLO
Lrif1	MmuEX00	chr3:10673	944	chr3:10672	24.73	OK,OK,23=	27.27	OK,OK,22=
BC051142	MmuEX00	chr17:3441	142	chr17:3441	16.13	VLOW,VLO	23.08	LOW,LOW,
Mpp7	MmuEX00	chr18:743	21	chr18:7439	17.24	LOW,LOW,	10.2	VLOW,VLO
Csf2ra	MmuEX00	chr19:6122	30	chr19:6122	73.75	SOK,SOK,2	78.81	SOK,SOK,2
Zfp462	MmuEX10	chr4:55007	82	chr4:54945	35.71	LOW,LOW,	41.41	LOW,LOW,
Tsga10	MmuEX00	chr1:37819	116	chr1:37834	65.9	VLOW,VLO	72.55	LOW,LOW,
Tsga10	MmuEX00	chr1:37815	155	chr1:37834	66.53	LOW,LOW,	63.8	VLOW,VLO
Patj	MmuEX00	chr4:98535	78	chr4:98523	91.3	VLOW,VLO	84.62	LOW,LOW,
Ccdc62	MmuEX00	chr5:12396	117	chr5:12395	82.87	LOW,LOW,	100	OK,OK,26=
Gm10125	MmuEX00	chr18:5583	84	chr18:5592	74.36	VLOW,VLO	54.29	VLOW,VLO

Lin28b	MmuEX002	chr10:4546	134	chr10:4547	26.03	OK,OK,8=1	21.74	OK,OK,7=8
Zkscan8	MmuEX005	chr13:2152	124	chr13:2152	35.29	VLOW,VLO	32.12	LOW,LOW,
Mocs1	MmuEX002	chr17:4944	62	chr17:4943	100	OK,OK,27=	94.81	OK,OK,26=
Cenpm	MmuEX001	chr15:8223	92	chr15:8223	82.32	OK,OK,25=	84.49	OK,OK,33=
Zfp467	MmuEX005	chr6:48443	76	chr6:48445	61.25	SOK,SOK,2	59.78	SOK,SOK,2
Il3ra	MmuEX101	chr14:1434	200	chr14:1434	14.8	LOW,LOW,	7.59	OK,OK,2=2
Adgrv1	MmuEX002	chr13:8142	136	chr13:8142	100	OK,OK,19=	100	OK,OK,19=
C230004F1	MmuEX00(	chrX:61122	96	chrX:6111	68.83	OK,OK,26=	67.68	OK,OK,39=
2410018L1	MmuEX10(	chr12:2295	106	chr12:2295	72.77	SOK,SOK,3	76.33	SOK,SOK,3
Cyp4f15	MmuEX001	chr17:3269	122	chr17:3269	89.47	VLOW,VLO	80.49	VLOW,VLO
Peak1	MmuEX00(	chr9:56374	64	chr9:56417	73.68	LOW,LOW,	93.1	LOW,LOW,
Prdm11	MmuEX003	chr2:92975	612	chr2:9298(	63.08	OK,OK,23=	58.02	OK,OK,31=
Chd2	MmuEX001	chr7:73507	108	chr7:73514	78.76	SOK,SOK,4	76.47	SOK,SOK,3
Lemd1	MmuEX002	chr1:1322(	3017	chr1:1321	6.02	OK,OK,5=0	1.45	OK,OK,1=0
Pigb	MmuEX003	chr9:73023	52	chr9:7302	48.84	VLOW,VLO	53.49	VLOW,VLO
Crocc2	MmuEX10(	chr1:93184	192	chr1:93183	10.34	VLOW,VLO	5	LOW,LOW,
2610307P1	MmuEX00(	chr13:286(	111	chr13:286	70.7	VLOW,VLO	69.57	VLOW,VLO
G630016G(	MmuEX101	chr2:11607	253	chr2:11606	29.29	OK,OK,20=	39.47	OK,OK,18=
Lipo2	MmuEX101	chr19:3374	137	chr19:3374	76.27	OK,OK,27=	74.14	LOW,LOW,
Gm16008	MmuEX002	chr4:15603	95	chr4:15603	56.76	VLOW,VLO	76.27	OK,OK,19=
Gm3892	MmuEX101	chr4:4204(	211	chr4:4203	77.27	LOW,LOW,	88.89	VLOW,VLO
Gm26782	MmuEX002	chr14:5087	76	chr14:5087	6.57	OK,OK,7=2	2.13	OK,OK,3=0
6530403H(	MmuEX10(	chr3:1206	138	chr3:1206	76.26	OK,OK,27=	79.55	OK,OK,27=
6530403H(	MmuEX10(	chr3:12067	65	chr3:12067	60.05	VLOW,VLO	68.42	VLOW,VLO
6530403H(	MmuEX10(	chr3:12067	96	chr3:12067	62.5	VLOW,VLO	70.37	OK,OK,16=
6530403H(	MmuEX10(	chr3:12077	106	chr3:1207	49.59	VLOW,VLO	48.13	VLOW,VLO
Gm2762	MmuEX101	chr13:533	111	chr13:533	85.22	LOW,LOW,	79.19	LOW,LOW,
A830010M	MmuEX00(	chr5:10748	97	chr5:10747	100	VLOW,VLO	100	VLOW,VLO
Rmst	MmuEX003	chr10:9208	219	chr10:9208	31.69	VLOW,VLO	45.16	VLOW,VLO
Dyrk1b	MmuEX001	chr7:28185	36	chr7:28185	39.7	OK,OK,34=	46.05	OK,SOK,51
Aldh16a1	MmuEX00(	chr7:4514	103	chr7:45154	82.46	OK,OK,22=	61.9	OK,OK,15=
Ttll5	MmuEX004	chr12:8602	123	chr12:8602	24.58	OK,SOK,18	24.12	SOK,SOK,1
Slc12a7	MmuEX004	chr13:7381	15	chr13:7381	20.14	OK,OK,3=1	16.82	OK,OK,2=5
Fdxr	MmuEX001	chr11:1152	85	chr11:1152	71.26	OK,SOK,56	61.93	SOK,SOK,7
Slc22a5	MmuEX004	chr11:5387	155	chr11:5388	100	OK,OK,38=	93.2	SOK,SOK,8
Rnf144a	MmuEX004	chr12:2640	74	chr12:2641	22.8	OK,OK,11=	27.5	SOK,SOK,2
Taf15	MmuEX004	chr11:8349	35	chr11:8348	92.2	SOK,SOK,1	99.34	SOK,SOK,2
Coch	MmuEX001	chr12:5159	149	chr12:5159	19.15	LOW,LOW,	14.89	OK,OK,3=4
Dnah5	MmuEX605	chr15:2841	183	chr15:2841	86.11	VLOW,LOW	91.5	VLOW,VLO
Efcab6	MmuEX001	chr15:8393	134	chr15:8393	85.21	LOW,LOW,	81.59	VLOW,VLO
Csad	MmuEX001	chr15:1021	90	chr15:1021	46.71	SOK,SOK,3	52.17	SOK,SOK,5
Ogfod2	MmuEX003	chr5:12411	128	chr5:12411	54.42	SOK,SOK,7	59.89	SOK,SOK,5
Ndc80	MmuEX003	chr17:7151	103	chr17:7152	83.54	VLOW,VLO	90.38	LOW,OK,1
Cenpx	MmuEX004	chr11:1207	52	chr11:1207	70.27	SOK,SOK,7	70.69	SOK,SOK,7
Pask	MmuEX003	chr1:93313	75	chr1:93314	20	VLOW,VLO	20.93	LOW,LOW,

Hdac4	MmuEX002	chr1:92012	151	chr1:92029	85.47	OK,OK,42=	94.52	OK,OK,35=
Ccdc39	MmuEX00(	chr3:33821	138	chr3:33825	94.61	SOK,SOK,78	98.88	SOK,SOK,7(
Ccnl1	MmuEX00:	chr3:65955	73	chr3:65956	69.57	OK,OK,51=	64.88	SOK,SOK,69
Ndst4	MmuEX607	chr3:1256(	186	chr3:12557	100	OK,OK,22=	100	LOW,LOW,
Mier1	MmuEX002	chr4:10311	74	chr4:10311	85.77	VLOW,VLO	62.31	LOW,LOW,
Prom1	MmuEX003	chr5:4400(	69	chr5:44001	19.67	OK,OK,4=7	27.31	LOW,LOW,
Coq2	MmuEX00:	chr5:10066	167	chr5:10067	61.69	SOK,SOK,23	61.76	SOK,SOK,15
Itpr1	MmuEX002	chr6:10842	33	chr6:10841	83.6	OK,SOK,41	84.19	OK,SOK,47
Tmtc1	MmuEX004	chr6:14828	114	chr6:14829	88.81	OK,SOK,38	84.04	OK,OK,32=
Sult1a1	MmuEX004	chr7:12667	126	chr7:12667	83.5	VLOW,VLO	77.46	LOW,LOW,
Sprtn	MmuEX002	chr8:1249(	129	chr8:12489	87.23	OK,OK,30=	79.05	OK,OK,40=
Pdgfd	MmuEX606	chr9:62937	181	chr9:62886	100	VLOW,VLO	100	VLOW,VLO
Snx14	MmuEX004	chr9:8840(	27	chr9:88401	80.37	SOK,SOK,4(	85.26	SOK,SOK,42
Itgbl1	MmuEX002	chr14:1236	218	chr14:1236	92.42	LOW,LOW,	82.53	LOW,LOW,
Dpyd	MmuEX00:	chr3:11936	13	chr3:11931	0	VLOW,VLO	0	LOW,LOW,
Pxk	MmuEX003	chr14:8159	33	chr14:8155	65.68	SOK,SOK,7(	65.04	SOK,SOK,8(
Diaph2	MmuEX00:	chrX:1298(	33	chrX:12975	82.04	LOW,OK,16	80.83	OK,OK,29=
N4bp2	MmuEX003	chr5:65771	55	chr5:65764	93.33	LOW,LOW,	82.61	VLOW,VLO
Zzz3	MmuEX005	chr3:15242	154	chr3:15242	80.86	SOK,SOK,64	71.81	OK,SOK,36
Stac3	MmuEX004	chr10:1275	52	chr10:1275	100	LOW,LOW,	100	VLOW,VLO
Adam22	MmuEX00(	chr5:8095(	108	chr5:8107(	54.95	LOW,SOK,1	70.25	SOK,SOK,24
Wdr25	MmuEX102	chr12:1088	98	chr12:1088	0	VLOW,VLO	0	VLOW,VLO
Sox5	MmuEX004	chr6:14458	72	chr6:14462	85.81	VLOW,VLO	72.79	VLOW,VLO
E130308A1	MmuEX00:	chr4:59737	173	chr4:59691	100	OK,OK,18=	100	OK,OK,22=
Npas4	MmuEX003	chr19:4987	110	chr19:4988	45.83	OK,OK,24=	35.21	OK,OK,16=
Ankrd16	MmuEX10(	chr2:11779	13	chr2:11779	48.39	OK,OK,0=9	44.08	OK,OK,0=1
Zfp672	MmuEX005	chr11:5832	130	chr11:5832	70.69	OK,OK,25=	72.34	OK,OK,38=
Med12l	MmuEX002	chr3:59039	33	chr3:59037	61.54	OK,OK,20=	59.96	OK,OK,22=
Mdn1	MmuEX002	chr4:32684	101	chr4:32683	91.42	OK,OK,18=	87.54	LOW,LOW,
Pcnx2	MmuEX003	chr8:12586	65	chr8:12586	38.21	LOW,OK,8=	30.96	OK,OK,9=2
Kcnc3	MmuEX002	chr7:4460(	122	chr7:4460(	17.67	SOK,SOK,28	18.56	SOK,SOK,28
Phactr2	MmuEX003	chr10:1325	186	chr10:1326	4.12	VLOW,VLO	13.48	OK,OK,2=1
Slc22a8	MmuEX004	chr19:8608	42	chr19:8607	54.16	SOK,SOK,9(	59.12	SOK,SOK,1(
Ubr4	MmuEX005	chr4:13943	33	chr4:13943	64.43	SOK,SOK,73	67.27	SOK,SOK,63
2410004P(	MmuEX00(	chr12:170(	217	chr12:170(	100	OK,OK,21=	92.94	OK,OK,30=
2010315B(	MmuEX10(	chr9:12429	61	chr9:12429	100	LOW,OK,13	100	OK,OK,18=
1700123M	MmuEX00(	chr4:1198(	267	chr4:11977	44.19	VLOW,VLO	41.22	VLOW,VLO
5430405H(	MmuEX10(	chr2:15685	874	chr2:15686	89.61	OK,OK,34=	87.67	OK,OK,40=
C030005K(	MmuEX10(	chr18:5005	126	chr18:5005	27.78	VLOW,VLO	37.14	VLOW,VLO
Dlx6os1	MmuEX102	chr6:68693	479	chr6:68714	75.54	VLOW,LOW	77.35	VLOW,VLO
6530403H(	MmuEX10(	chr3:12079	87	chr3:12088	62.94	OK,OK,27=	58.02	OK,OK,29=
Gm43278	MmuEX10:	chr5:13477	447	chr5:13474	53.12	LOW,LOW,	39.68	LOW,LOW,
Lama2	MmuEX002	chr10:2705	6	chr10:2705	82.84	OK,OK,28=	93.78	OK,OK,50=
Rpgrip1l	MmuEX004	chr8:91276	12	chr8:9128(	80.43	OK,OK,27=	64.89	LOW,OK,17
Mpp7	MmuEX60(	chr18:743(	12	chr18:743(	58.69	OK,OK,4=2	43.48	VLOW,VLO

Ksr2	MmuEX10	chr5:11768	6	chr5:11768	89.85	OK,OK,44=	78.36	OK,OK,36=
Kcnma1	MmuEX00	chr14:2343	9	chr14:2343	17.63	OK,SOK,6=	14.9	OK,SOK,5=
Gmpr2	MmuALTA(	chr14:5567	4	chr14:5567	80	LOW,SOK,1	89.66	LOW,SOK,1
Flii	MmuALTA	chr11:6072	4	chr11:6072	99.06	LOW,SOK,1	98.97	LOW,SOK,1
Slc2a3	MmuALTA	chr6:12279	4	chr6:12280	79.61	LOW,SOK,1	83.28	LOW,SOK,1
Ssbp2	MmuALTA	chr13:9169	0	chr13:9169	90.61	LOW,OK,10	85.99	LOW,OK,98
Pnpla6	MmuALTA(	chr8:35165	3	chr8:35155	51.94	VLOW,LOW	65.44	OK,OK,67.2
Rrnad1	MmuALTA(	chr3:87927	95	chr3:87927	68.75	OK,OK,98.7	64.52	OK,OK,95.2
1700008O(	MmuALTA(	chr7:-4436	0	chr7:44361	100	LOW,LOW,	97.96	OK,OK,100
Rarres2	MmuALTA(	chr6:48569	34	chr6:48570	33.33	OK,OK,100	40.91	OK,OK,100
Fxyd5	MmuALTA(	chr7:31041	12	chr7:31042	28.81	OK,OK,100	14.38	OK,OK,100
Slc38a3	MmuALTA(	chr9:10765	0	chr9:10765	97.4	SOK,SOK,10	95.83	SOK,SOK,10
Amotl1	MmuALTA(	chr9:14593	0	chr9:14596	30.55	OK,SOK,100	58.96	OK,SOK,100
Slc9a5	MmuALTA(	chr8:10535	135	chr8:10535	80.31	LOW,LOW,	79.49	OK,OK,97.5
Rufy2	MmuALTA	chr10:6300	0	chr10:6300	72.4	OK,OK,100	69.96	OK,OK,98.6
Aifm2	MmuALTA(	chr10:6173	2	chr10:6173	100	VLOW,VLO	93.52	LOW,LOW,
Cdkl3	MmuALTA(	chr11:5200	3	chr11:5200	23.75	OK,OK,100	25.84	OK,OK,100
Trim47	MmuALTA(	chr11:1161	3	chr11:1161	35.53	LOW,LOW,	37.14	LOW,LOW,
Coro6	MmuALTA(	chr11:7746	0	chr11:7746	51.35	LOW,LOW,	58.82	OK,OK,100
Dvl2	MmuALTA(	chr11:7000	0	chr11:7000	96.67	OK,OK,100	92.96	OK,OK,100
Spata7	MmuALTA	chr12:9863	0	chr12:9863	13.64	VLOW,VLO	23.08	LOW,LOW,
Mta1	MmuALTA	chr12:1131	5	chr12:1131	37.14	OK,SOK,100	38.06	SOK,SOK,10
Zkscan3	MmuALTA(	chr13:2139	0	chr13:2140	36.26	OK,OK,100	48.96	OK,OK,100
Otx2	MmuALTA(	chr14:4866	0	chr14:4866	97.37	LOW,LOW,	100	LOW,LOW,
Mief1	MmuALTA(	chr15:8024	86	chr15:8024	86.67	OK,OK,100	100	OK,OK,100
Efcab6	MmuALTA(	chr15:8387	0	chr15:8387	90	LOW,LOW,	97.44	LOW,OK,95
Gpt	MmuALTA(	chr15:7669	11	chr15:7669	97.27	LOW,LOW,	93.63	LOW,LOW,
Rhpn1	MmuALTA(	chr15:7571	0	chr15:7571	14.29	LOW,OK,10	6.12	OK,OK,100
Gart	MmuALTA(	chr16:9164	39	chr16:9164	68.59	OK,OK,100	67.43	OK,OK,97.8
Stk38	MmuALTA(	chr17:2900	3	chr17:2900	23.81	OK,OK,100	26.97	OK,OK,100
Rgs11	MmuALTA(	chr17:2620	0	chr17:2620	88.11	OK,OK,82.3	86.82	OK,OK,85.3
Pggt1b	MmuALTA(	chr18:4624	66	chr18:4625	93.61	OK,OK,100	96.36	OK,OK,100
Cdc42bpg	MmuALTA(	chr19:6322	0	chr19:6322	62.5	VLOW,VLO	55.56	LOW,LOW,
Pdcd11	MmuALTA(	chr19:4709	6	chr19:4709	100	LOW,LOW,	100	VLOW,VLO
Cdk2	MmuALTA(	chr10:1286	3	chr10:1287	25	VLOW,VLO	23.08	LOW,LOW,
Katnal2	MmuALTA(	chr18:7697	0	chr18:7697	79.55	OK,OK,100	78.57	LOW,LOW,
Rptor	MmuALTA	chr11:1198	4	chr11:1197	100	OK,OK,100	100	OK,OK,96.8
Hdac4	MmuALTA(	chr1:91996	0	chr1:92002	12.19	OK,OK,100	14.93	OK,OK,100
Klhl12	MmuALTA(	chr1:13445	86	chr1:13445	95.56	OK,OK,100	98.28	OK,OK,100
Rgl1	MmuALTA(	chr1:15267	3	chr1:15276	73.19	OK,OK,100	66.58	OK,OK,100
Dusp12	MmuALTA(	chr1:17088	0	chr1:17088	78.29	SOK,SOK,95	79.12	OK,OK,92.7
Pdss1	MmuALTA(	chr2:22912	0	chr2:22906	79.96	OK,OK,100	81.37	OK,OK,100
Sh3glb2	MmuALTA	chr2:30346	0	chr2:30346	14.46	SOK,SOK,7	9.87	SOK,SOK,8
Sapcd2	MmuALTA(	chr2:25375	175	chr2:25375	29.17	VLOW,VLO	8	LOW,LOW,
Lpcat4	MmuALTA(	chr2:11224	0	chr2:11224	13.15	OK,OK,100	16.27	OK,OK,97.3

Lrp4	MmuALTA(	chr2:91485	31	chr2:91481	90.11	LOW,LOW,	80.34	OK,OK,100
Pex5l	MmuALTA(	chr3:33005	0	chr3:33007	79.69	OK,OK,100	72.92	OK,OK,100
Adar	MmuALTA:	chr3:89739	4	chr3:89738	68.32	SOK,SOK,1(	73.58	SOK,SOK,1(
Fubp1	MmuALTA(	chr3:15221	3	chr3:15221	50.04	SOK,SOK,1(	56.18	SOK,SOK,1(
Usp30	MmuALTA(	chr5:11411	0	chr5:11411	41.67	OK,OK,98.(	36	OK,OK,100
Agfg2	MmuALTA(	chr5:13766	3	chr5:13766	97.55	OK,OK,100	94.77	OK,OK,100
Abcc9	MmuALTA:	chr6:14268	27	chr6:14268	92.11	LOW,LOW,	92.59	LOW,LOW,
Ogg1	MmuALTA(	chr6:11332	0	chr6:11332	83.33	LOW,LOW,	78.79	LOW,LOW,
Rad51ap1	MmuALTA(	chr6:12692	0	chr6:12692	96.15	LOW,LOW,	100	LOW,LOW,
Zdhhc13	MmuALTA(	chr7:48795	0	chr7:48789	42.86	OK,OK,100	34.15	OK,OK,100
Enox2	MmuALTA(	chrX:49018	0	chrX:49023	17.74	OK,OK,100	16.99	OK,OK,100
Igsf1	MmuALTA(	chrX:49790	150	chrX:49791	57.14	LOW,OK,1(	49.55	OK,OK,100
Nek1	MmuALTA(	chr8:61072	4	chr8:61072	87.06	VLOW,SOK	81.69	VLOW,SOK
Mto1	MmuALTA(	chr9:78460	10	chr9:78458	89.55	SOK,SOK,9	88.61	SOK,SOK,1(
Adamts7	MmuALTA(	chr9:90193	0	chr9:90192	63.9	OK,OK,100	54.26	OK,OK,100
Stac	MmuALTA(	chr9:11163	33	chr9:11168	100	LOW,LOW,	97.49	OK,OK,76.1
C330027C0	MmuALTA(	chr16:4900	31	chr16:4900	100	LOW,LOW,	100	VLOW,VLO
Lss	MmuALTA(	chr10:7654	17	chr10:7654	98.72	OK,OK,100	96.55	OK,OK,100
Fuk	MmuALTA:	chr8:11088	2	chr8:11089	69.68	VLOW,VLO	88.83	VLOW,VLO
Engase	MmuALTA(	chr11:1184	0	chr11:1184	76.19	OK,OK,97.6	69.77	OK,OK,100
Washc4	MmuALTA(	chr10:8355	12	chr10:8355	23.53	LOW,LOW,	20	LOW,LOW,
Ssh3	MmuALTA(	chr19:4267	94	chr19:4268	100	OK,OK,73.2	100	OK,OK,76.1
Synrg	MmuALTA(	chr11:8397	3	chr11:8397	74.63	OK,OK,100	77.92	OK,OK,100
Map2k2	MmuALTA(	chr10:8112	0	chr10:8111	70.63	SOK,SOK,1(	73.3	SOK,SOK,1(
Wnk4	MmuALTA:	chr11:1012	0	chr11:1012	32.69	VLOW,VLO	35.05	LOW,LOW,
Cox18	MmuALTA(	chr5:90222	0	chr5:90223	61.29	OK,OK,100	77.27	OK,OK,100
Fam179b	MmuALTA(	chr12:6501	106	chr12:6501	15.25	OK,OK,100	11.13	OK,OK,100
Grhpr	MmuALTA(	chr4:44986	5	chr4:44985	76	LOW,SOK,1	90	VLOW,SOK
Usp35	MmuALTA:	chr7:97324	0	chr7:97325	17.14	LOW,LOW,	5.26	LOW,LOW,
Snapc4	MmuALTA(	chr2:26376	4	chr2:26376	100	OK,OK,100	100	OK,SOK,10
Zdhhc23	MmuALTA(	chr16:4397	111	chr16:4397	87.5	OK,OK,97.9	83.33	OK,OK,97.(
Sec24a	MmuALTA(	chr11:5172	3	chr11:5173	89.92	OK,OK,98.2	90.01	LOW,OK,1(
Tbc1d24	MmuALTA:	chr17:2418	4	chr17:2418	45.99	OK,SOK,99.	41.52	OK,SOK,99.
Papd5	MmuALTA(	chr8:88199	72	chr8:88199	15	VLOW,VLO	13.64	VLOW,VLO
Wdr62	MmuALTA(	chr7:30241	57	chr7:30242	26.67	VLOW,VLO	29.41	VLOW,VLO
Ralgapa2	MmuALTA(	chr2:14640	0	chr2:14641	100	VLOW,VLO	100	VLOW,VLO
Vps13b	MmuALTA(	chr15:3557	34	chr15:3557	88.54	VLOW,VLO	76.73	VLOW,VLO
Fbxw17	MmuALTA(	chr13:5043	0	chr13:5043	75	VLOW,VLO	86.67	VLOW,VLO
Kmt2c	MmuALTA(	chr5:25414	3	chr5:25443	33.33	OK,OK,100	38.89	LOW,LOW,
Cep250	MmuALTA(	chr2:15597	0	chr2:15597	82.91	OK,OK,100	73.97	SOK,SOK,9
Fchsd1	MmuALTA(	chr18:3796	6	chr18:3796	25.59	OK,OK,100	20.18	OK,OK,100
Scube3	MmuALTA:	chr17:2816	10	chr17:2816	13.04	VLOW,VLO	20	LOW,LOW,
Epg5	MmuALTA(	chr18:7796	49	chr18:7796	100	LOW,LOW,	100	OK,OK,100
Bptf	MmuALTA(	chr11:1070	3	chr11:1070	81.9	OK,OK,67.9	81.21	OK,OK,64.1
Oard1	MmuALTA(	chr17:4841	3	chr17:4841	37.17	OK,OK,96.3	44.23	LOW,OK,93

Dlk1	MmuALTA(	chr12:1094	0	chr12:1094	93.78	VLOW,VLO	87.88	LOW,LOW,
Git2	MmuALTA(	chr5:11475	0	chr5:11475	70.15	VLOW,VLO	71.47	LOW,LOW,
Grk3	MmuALTA(	chr5:11296	0	chr5:11297	83.33	OK,OK,100	82.54	OK,OK,93.8
Hps4	MmuALTA:	chr5:11236	26	chr5:11236	100	OK,OK,100	100	OK,OK,100
Cd2bp2	MmuALTA(	chr7:12719	9	chr7:12719	73.33	VLOW,VLO	63.64	VLOW,LOW
Dnal1	MmuALTA(	chr12:8412	0	chr12:8411	80.84	LOW,LOW,	69.58	LOW,LOW,
Fam227a	MmuALTA(	chr15:7963	0	chr15:7964	52.38	LOW,LOW,	47.33	LOW,OK,10
Tmem108	MmuALTA(	chr9:10360	0	chr9:10375	49.36	SOK,SOK,98	53.61	SOK,SOK,10
Fam129c	MmuALTA(	chr8:71607	36	chr8:71606	60	LOW,LOW,	59.86	OK,OK,100
Ccdc84	MmuALTA(	chr9:44412	8	chr9:44413	91.3	VLOW,VLO	87.5	VLOW,VLO
Prrt3	MmuALTA(	chr6:11349	79	chr6:11350	51.92	OK,OK,100	38.46	OK,OK,100
1600012H0	MmuALTA(	chr17:1494	5	chr17:1494	89.54	LOW,LOW,	79.72	LOW,LOW,
Kif7	MmuALTA(	chr7:79706	0	chr7:79706	27.78	VLOW,VLO	25	LOW,LOW,
Eml5	MmuALTA(	chr12:9887	58	chr12:9888	95.65	OK,OK,100	94.64	OK,OK,100
Epha3	MmuALTA(	chr16:6361	0	chr16:6361	13.4	OK,OK,95.8	7.48	OK,OK,100
Lins1	MmuALTA(	chr7:66710	71	chr7:66709	51.78	LOW,LOW,	56.49	OK,OK,98.0
Ebf4	MmuALTA(	chr2:13036	116	chr2:13036	90.63	OK,OK,100	89.39	OK,OK,100
Mdm4	MmuALTA(	chr1:13300	0	chr1:13300	23.2	OK,OK,91.4	15.64	OK,OK,92.4
Pprc1	MmuALTA(	chr19:4606	0	chr19:4606	76.39	OK,OK,100	77.62	OK,OK,100
Cars2	MmuALTA(	chr8:11530	3	chr8:11537	27.17	OK,OK,100	23.78	OK,OK,95.7
Cep70	MmuALTA(	chr9:99246	0	chr9:99243	96.05	LOW,LOW,	95.53	VLOW,VLO
Mok	MmuALTA(	chr12:1108	45	chr12:1108	26.12	OK,OK,62.8	13.84	LOW,LOW,
Cep162	MmuALTA(	chr9:87217	0	chr9:87218	20.48	VLOW,VLO	20.48	VLOW,VLO
Fcgr3	MmuALTA(	chr1:17105	3	chr1:17105	100	LOW,LOW,	86.67	VLOW,VLO
Prpf40a	MmuALTA(	chr2:53145	38	chr2:53146	36.72	SOK,SOK,10	36.97	SOK,SOK,10
Syne2	MmuALTA(	chr12:7602	3	chr12:7602	16.67	VLOW,LOW	11.76	VLOW,VLO
Eno1	MmuALTA:	chr4:15023	23	chr4:15023	89.19	LOW,LOW,	94.44	LOW,LOW,
Slc22a8	MmuALTA:	chr19:8593	0	chr19:8591	76.6	OK,OK,75.8	79.25	OK,OK,82.7
Mro	MmuALTA:	chr18:7387	0	chr18:7387	94.99	OK,OK,76.8	97.66	OK,OK,87.6
Akap13	MmuALTA(	chr7:75725	3	chr7:75725	22.92	OK,OK,100	22.81	OK,OK,100
Il3ra	MmuALTA(	chr14:1434	391	chr14:1434	23.24	VLOW,VLO	27.24	LOW,LOW,
Cgn	MmuALTA(	chr3:94778	0	chr3:94778	60	LOW,LOW,	64.71	LOW,LOW,
Fam8a1	MmuALTA:	chr13:4667	4	chr13:4667	76.1	SOK,SOK,10	65.59	SOK,SOK,10
Zfp382	MmuALTA(	chr7:30130	28	chr7:30125	31.25	LOW,LOW,	39.13	VLOW,VLO
Ccdc82	MmuALTA:	chr9:13249	0	chr9:13247	69.38	VLOW,VLO	61.4	VLOW,VLO
A930006K0	MmuALTA:	chr16:9146	207	chr16:9146	50	VLOW,VLO	58.82	VLOW,VLO
Gm21887	MmuALTA:	chrX:17001	0	chrX:17001	54.02	SOK,SOK,99	47.88	SOK,SOK,10
Gm16973	MmuALTA:	chr14:5669	68	chr14:5670	75	VLOW,VLO	81.82	LOW,LOW,
Xndc1	MmuALTA(	chr7:10207	0	chr7:10206	33.96	SOK,SOK,99	31.53	SOK,SOK,10
Gm28512	MmuALTA(	chr1:15375	0	chr1:15374	37.93	LOW,LOW,	26.67	VLOW,VLO
B230209E1	MmuALTA:	chr7:61604	0	chr7:61615	50.67	SOK,SOK,74	47.75	SOK,SOK,79
Gm19410	MmuALTA:	chr8:35795	80	chr8:35792	97.3	LOW,LOW,	93.75	LOW,LOW,
Slc19a1	MmuALTD(	chr10:7703	103	chr10:7703	27.29	OK,OK,84.8	20.14	OK,OK,86.5
Gmpr2	MmuALTD:	chr14:5567	0	chr14:5567	80	LOW,SOK,1	89.66	LOW,SOK,1
Gtf2f1	MmuALTD:	chr17:5700	29	chr17:5700	49.56	SOK,SOK,10	43.51	SOK,SOK,10

Flii	MmuALTD	chr11:6072	0	chr11:6072	100	LOW,SOK,1	100	LOW,SOK,1
Zfp324	MmuALTD	chr7:12968	37	chr7:12968	100	LOW,LOW,	94.88	LOW,LOW,
Adcy9	MmuALTD	chr16:4312	0	chr16:4312	91.11	OK,OK,100	97.22	LOW,LOW,
Pan2	MmuALTD	chr10:1283	58	chr10:1283	21.05	LOW,LOW,	26.92	LOW,LOW,
Gtpbp3	MmuALTD	chr8:71491	27	chr8:71491	94.44	OK,OK,72.9	87.5	OK,OK,78.0
Amotl1	MmuALTD	chr9:14596	28	chr9:14596	69.16	OK,SOK,99.	100	OK,SOK,10
Mrm1	MmuALTD	chr11:8481	137	chr11:8481	28.02	VLOW,VLO	22.82	LOW,LOW,
Tubd1	MmuALTD	chr11:-865	106	chr11:-865	20.47	LOW,LOW,	25.55	LOW,LOW,
Ntsr2	MmuALTD	chr12:1665	58	chr12:1665	68.84	LOW,LOW,	72.8	LOW,LOW,
Trappc12	MmuALTD	chr12:2875	0	chr12:2875	52.14	SOK,SOK,1	56.59	SOK,SOK,1
Lig3	MmuALTD	chr11:-827	0	chr11:-827	37.5	OK,OK,100	39.74	OK,OK,100
Mta1	MmuALTD	chr12:1131	0	chr12:1131	37.14	OK,SOK,10	38.06	SOK,SOK,1
Slc35b3	MmuALTD	chr13:3896	269	chr13:3896	19.3	OK,OK,98.5	23.7	OK,OK,96.9
Gpt	MmuALTD	chr15:7669	5	chr15:7669	20.89	LOW,LOW,	13.94	LOW,LOW,
Akap8	MmuALTD	chr17:3232	13	chr17:3232	100	VLOW,VLO	89.47	VLOW,VLO
Cdc23	MmuALTD	chr18:3463	69	chr18:3463	100	OK,OK,100	100	OK,OK,97.8
Pggt1b	MmuALTD	chr18:4627	0	chr18:4627	84.4	OK,OK,100	87.1	OK,OK,100
Aip	MmuALTD	chr19:4125	48	chr19:4125	52.17	OK,OK,100	44.87	OK,OK,100
Plce1	MmuALTD	chr19:3872	0	chr19:3872	93.51	VLOW,VLO	94.88	VLOW,VLO
Pdcd11	MmuALTD	chr19:-470	198	chr19:-470	11.54	LOW,LOW,	17.65	VLOW,VLO
Hps1	MmuALTD	chr19:4275	0	chr19:4275	66.17	VLOW,VLO	71.34	VLOW,VLO
Tro	MmuALTD	chrX:15065	0	chrX:15065	65.22	SOK,SOK,9	62.86	SOK,SOK,9
Katnal2	MmuALTD	chr18:7701	0	chr18:7701	50	VLOW,VLO	60	VLOW,VLO
Dhtkd1	MmuALTD	chr2:59039	0	chr2:59039	30.61	LOW,LOW,	24.86	LOW,LOW,
Ercc5	MmuALTD	chr1:44158	0	chr1:44158	90.26	OK,OK,100	91.89	OK,OK,100
Pfkfb2	MmuALTD	chr1:13069	0	chr1:13069	92.59	LOW,LOW,	83.02	OK,OK,81.5
Pdss1	MmuALTD	chr2:22915	3	chr2:22915	76	LOW,LOW,	72	OK,OK,100
Baz2b	MmuALTD	chr2:59907	105	chr2:59907	70.15	SOK,SOK,1	71.15	OK,OK,100
Harbi1	MmuALTD	chr2:-9171	276	chr2:-9171	81.82	LOW,LOW,	77.14	LOW,LOW,
Lrrc57	MmuALTD	chr2:1206	7	chr2:1206	45.58	OK,OK,100	31.8	OK,OK,100
Rbm38	MmuALTD	chr2:17302	0	chr2:17302	16.67	VLOW,VLO	23.53	LOW,LOW,
Adar	MmuALTD	chr3:89738	0	chr3:89738	68.77	SOK,SOK,1	73.58	SOK,SOK,1
Ptbp3	MmuALTD	chr4:59524	9	chr4:59524	83.62	LOW,LOW,	85.75	LOW,LOW,
Npr2	MmuALTD	chr4:43641	0	chr4:43641	94.59	OK,OK,98.4	92.47	OK,OK,95.2
Ndufs5	MmuALTD	chr4:12371	0	chr4:12371	74.42	OK,OK,100	83.87	OK,OK,100
Stmn1	MmuALTD	chr4:13447	0	chr4:13447	42.86	OK,OK,93.1	53.33	OK,OK,81.3
Mtus2	MmuALTD	chr5:-1479	314	chr5:-1479	53.85	LOW,LOW,	35.56	OK,OK,100
Col1a2	MmuALTD	chr6:45311	0	chr6:45311	11.16	SOK,SOK,9	10.31	SOK,SOK,1
Trim24	MmuALTD	chr6:37945	83	chr6:37945	70.74	SOK,SOK,9	66.75	SOK,SOK,9
Lrrc23	MmuALTD	chr6:12477	0	chr6:12477	40.61	VLOW,VLO	58.68	LOW,LOW,
Lyrm1	MmuALTD	chr7:11989	356	chr7:11989	56.4	LOW,LOW,	73.02	VLOW,VLO
Porcn	MmuALTD	chrX:82016	5	chrX:82016	100	SOK,SOK,8	100	SOK,SOK,8
Aff2	MmuALTD	chrX:69725	0	chrX:69725	90.86	LOW,LOW,	93.71	LOW,LOW,
Aff2	MmuALTD	chrX:69523	12	chrX:69523	51.35	LOW,LOW,	61.54	LOW,LOW,
Nek1	MmuALTD	chr8:61072	0	chr8:61072	84.1	VLOW,SOK	82.49	VLOW,SOK

Slc27a1	MmuALTD(	chr8:71569	16	chr8:71569	31.6	OK,OK,42.(	35.65	OK,OK,39.2
Slc37a4	MmuALTD:	chr9:44397	27	chr9:44397	73.33	LOW,LOW,	72.41	LOW,LOW,
Ppip5k1	MmuALTD(	chr2:12133	24	chr2:12133	86.05	OK,OK,100	91.67	OK,OK,100
Idua	MmuALTD(	chr5:10868	17	chr5:10868	100	VLOW,VLO	92.11	VLOW,LOW
Lrrc24	MmuALTD:	chr15:7672	141	chr15:7672	91.3	VLOW,VLO	93.1	LOW,LOW,
Tubgcp5	MmuALTD(	chr7:55800	67	chr7:55800	96.36	OK,OK,100	92.86	OK,OK,100
Engase	MmuALTD(	chr11:1184	4	chr11:1184	15.62	LOW,LOW,	17.95	LOW,LOW,
Tldc1	MmuALTD:	chr8:11977	214	chr8:11977	25.58	OK,OK,100	41.46	OK,OK,100
Fbxo16	MmuALTD(	chr14:6532	10	chr14:6532	72.92	OK,OK,63.1	55.56	OK,OK,78.9
Cpsf7	MmuALTD(	chr19:-105	0	chr19:-105	80.72	OK,OK,100	88.46	OK,OK,100
Grhpr	MmuALTD:	chr4:44985	0	chr4:44985	76	LOW,SOK,1	90	VLOW,SOK
Krt222	MmuALTD:	chr11:9924	81	chr11:9924	39.58	OK,OK,100	39.47	LOW,LOW,
Cyld	MmuALTD(	chr8:-8869	0	chr8:-8869	58.61	LOW,LOW,	60.91	LOW,LOW,
Stag3	MmuALTD(	chr5:13830	97	chr5:13830	23.33	LOW,LOW,	21.05	LOW,OK,10
Spred3	MmuALTD(	chr7:29167	93	chr7:29167	91.49	OK,OK,89.3	92.96	OK,OK,89.8
Capn15	MmuALTD(	chr17:2596	55	chr17:2596	90.02	LOW,OK,10	79.91	LOW,LOW,
Fbxw17	MmuALTD(	chr13:5043	85	chr13:5043	75	VLOW,VLO	86.67	VLOW,VLO
Aim2	MmuALTD(	chr1:17345	253	chr1:17345	51.72	OK,OK,100	61.22	OK,OK,100
Sirpa	MmuALTD(	chr2:12959	71	chr2:12959	95.45	VLOW,VLO	79.72	VLOW,VLO
Atp13a4	MmuALTD:	chr16:2948	83	chr16:2949	41.18	VLOW,VLO	6.67	VLOW,VLO
Cpeb3	MmuALTD(	chr19:3713	0	chr19:3713	33.8	OK,OK,100	39.95	OK,OK,93.5
Hlcs	MmuALTD(	chr16:9428	0	chr16:9428	25	VLOW,VLO	28	LOW,LOW,
Htr2c	MmuALTD(	chrX:14716	0	chrX:14716	23.91	OK,OK,100	32.39	OK,OK,100
Sox5	MmuALTD(	chr6:14415	0	chr6:14415	88.17	OK,OK,100	87.23	OK,OK,98.9
Lyn	MmuALTD(	chr4:37387	63	chr4:37387	68.75	VLOW,VLO	62.12	LOW,LOW,
Flad1	MmuALTD:	chr3:89411	185	chr3:89411	50.03	OK,OK,27.2	43.86	OK,OK,31.3
Alkbh2	MmuALTD:	chr5:11412	207	chr5:11412	13.79	LOW,LOW,	10	LOW,LOW,
BC024139	MmuALTD:	chr15:7612	77	chr15:7612	17.86	LOW,LOW,	14.29	VLOW,VLO
Ascc1	MmuALTD(	chr10:6000	0	chr10:6000	63.52	VLOW,LOW	68.1	LOW,OK,54
Zfp553	MmuALTD(	chr7:-1272	31	chr7:-1272	32.45	OK,OK,100	37.52	OK,OK,100
Whamm	MmuALTD(	chr7:81574	17	chr7:81574	88.28	OK,OK,100	86.92	OK,OK,100
C2cd4c	MmuALTD:	chr10:7961	0	chr10:7961	29.71	SOK,SOK,1(	34.27	SOK,SOK,1(
Ttc34	MmuALTD:	chr4:15486	0	chr4:15486	75.3	LOW,LOW,	62.26	VLOW,VLO
Zfp740	MmuALTD(	chr15:1022	0	chr15:1022	37.47	SOK,SOK,1(	39.65	SOK,SOK,1(
Taf13	MmuALTD(	chr3:-1085	361	chr3:-1085	82.14	LOW,LOW,	90	VLOW,VLO
Adamts16	MmuALTD(	chr13:7077	0	chr13:7077	53.85	LOW,LOW,	50	LOW,LOW,
Zfp786	MmuALTD:	chr6:47830	0	chr6:47830	16	LOW,LOW,	12	LOW,LOW,
St6galnac3	MmuALTD:	chr3:15350	478	chr3:15350	26.18	LOW,LOW,	20.99	LOW,LOW,
Adarb2	MmuALTD(	chr13:8752	0	chr13:8752	17.73	OK,OK,100	16.98	SOK,SOK,1(
Trmt1l	MmuALTD(	chr1:-1514	172	chr1:-1514	86.21	OK,OK,100	83.05	OK,OK,100
4732471J0	MmuALTD:	chr7:25396	0	chr7:25396	95.83	VLOW,VLO	88	LOW,LOW,
Gon4l	MmuALTD(	chr3:-8883	0	chr3:-8883	51.47	OK,OK,91.8	53	SOK,SOK,98
Zscan22	MmuALTD(	chr7:-1289	66	chr7:-1289	50	OK,OK,100	45	OK,OK,100
Kctd18	MmuALTD(	chr1:57965	22	chr1:57965	92.73	OK,OK,91.(	84.87	OK,OK,91.2
Unc80	MmuALTD(	chr1:66549	6	chr1:66549	50.11	LOW,LOW,	58.88	VLOW,VLO

Chd6	MmuALTD(	chr2:16097	4	chr2:16097	83.67	OK,SOK,99.	100	OK,OK,95.4
Scn3a	MmuALTD(	chr2:65508	0	chr2:65508	52.86	SOK,SOK,1(	46.86	SOK,SOK,9
A830018L1	MmuALTD(	chr1:11747	9	chr1:11747	71.87	LOW,LOW,	90.4	VLOW,VLO
Rrp1b	MmuALTD(	chr17:3204	218	chr17:3204	60.6	VLOW,VLO	53.33	LOW,LOW,
Kcnh7	MmuALTD(	chr2:62777	0	chr2:62777	15.87	OK,OK,100	28	LOW,LOW,
Chpt1	MmuALTD(	chr10:8847	93	chr10:8847	52.47	LOW,LOW,	49.81	OK,OK,100
Csmd1	MmuALTD:	chr8:16196	8	chr8:16196	90.79	LOW,OK,1(	81.38	VLOW,LOW
Hdac10	MmuALTD(	chr15:8912	0	chr15:8912	52.08	OK,OK,92.3	53.57	OK,OK,84.8
Rps15	MmuALTD:	chr10:-802	0	chr10:-802	55.56	LOW,OK,97	69.48	OK,OK,97.9
Spag8	MmuALTD:	chr4:43652	68	chr4:43652	15.38	LOW,LOW,	5.71	LOW,LOW,
Vkorc1l1	MmuALTD(	chr5:-1299	138	chr5:-1299	69.92	OK,OK,100	74.02	OK,OK,100
Zfp810	MmuALTD(	chr9:2228(	0	chr9:2228(	98	OK,OK,92.5	96.3	OK,OK,97.5
Fam217b	MmuALTD(	chr2:-1784	18	chr2:-1784	33.12	LOW,LOW,	26.43	LOW,LOW,
Rpl23	MmuALTD:	chr11:9778	46	chr11:9778	66.67	VLOW,VLO	72	LOW,LOW,
D2hgdh	MmuALTD(	chr1:93826	231	chr1:93826	25	OK,OK,100	23.08	LOW,LOW,
Emc1	MmuALTD:	chr4:13936	0	chr4:13936	61.78	OK,SOK,10	70.9	OK,SOK,10
Gm13563	MmuALTD:	chr2:26387	119	chr2:26387	13.77	LOW,OK,1(	21.58	VLOW,LOW
4930447M	MmuALTD:	chr2:-1934	48	chr2:-1934	61.11	LOW,LOW,	71.88	LOW,LOW,
Mndal	MmuALTD(	chr1:17386	31	chr1:17386	100	VLOW,VLO	100	OK,OK,100
Cyp4f17	MmuALTD(	chr17:325(	16	chr17:325(	24.05	LOW,LOW,	13.67	LOW,LOW,
Gm21887	MmuALTD:	chrX:17001	0	chrX:17001	53.22	SOK,SOK,9	46.77	SOK,SOK,9
Lppos	MmuALTD:	chr16:2439	0	chr16:2439	45.83	VLOW,VLO	26.92	LOW,LOW,
RP23-23P9	MmuALTD:	chr9:44882	34	chr9:44882	41.18	VLOW,VLO	39.13	VLOW,VLO
Scube2	MmuEX60:	chr7:1098(	162	chr7:1098(	100	VLOW,VLO	100	VLOW,VLO
Slc16a7	MmuEX004	chr10:1253	104	chr10:1253	44.01	OK,SOK,21	43.12	OK,OK,22=
Tmem169	MmuEX004	chr1:72292	126	chr1:72284	27.85	SOK,SOK,1(	35.96	SOK,SOK,1
Unc13b	MmuEX005	chr4:43161	36	chr4:43115	42.65	OK,OK,20=	48.8	OK,OK,22=
Rasl12	MmuEX70(	chr9:65399	504	chr9:65398	0	OK,OK,0=0	4	VLOW,VLO
Cacnb2	MmuEX60	chr2:14968	20	chr2:14963	41.25	OK,OK,4=1	37.04	OK,OK,5=8
Slc22a8	MmuEX60	chr19:8607	124	chr19:8606	71.46	SOK,SOK,8	74.73	SOK,SOK,9
Erich3	MmuEX70(	chr3:1547(	129	chr3:1547(	100	LOW,LOW,	100	VLOW,VLO
Myo1b	MmuINT01	chr1:51766	2095	chr1:51769	30.28	SOK,SOK,1	30.67	SOK,SOK,1
Cfap65	MmuINT0(	chr1:74918	199	chr1:74919	34.78	LOW,LOW,	37.78	VLOW,VLO
Qsox1	MmuINT01	chr1:15579	8300	chr1:1558(	8.33	OK,OK,3.3=	20.75	OK,OK,6.3=
Qsox1	MmuINT01	chr1:15579	702	chr1:15579	8.99	OK,OK,1.4=	4.51	OK,OK,0.5=
Qsox1	MmuINT01	chr1:15579	2261	chr1:15579	21.25	SOK,SOK,1	28.74	SOK,SOK,1
Adam23	MmuINT1(	chr1:63572	12366	chr1:63572	15.41	SOK,SOK,1	24.94	SOK,SOK,1
Cacna1e	MmuINT0(	chr1:1544(	3853	chr1:1544(	9	SOK,SOK,9.	15.13	SOK,SOK,7.
Ppp1r12b	MmuINT01	chr1:13487	6677	chr1:13488	0.51	OK,OK,0.0=	0	OK,OK,0.2=
Ahctf1	MmuINT0(	chr1:17975	1376	chr1:17975	15.19	OK,OK,8.3=	9.24	SOK,SOK,8.
Rcor3	MmuINT01	chr1:1921(	7488	chr1:1921(	53.18	OK,OK,9.0=	43.29	OK,OK,8.6=
Obsl1	MmuINT01	chr1:75488	781	chr1:75489	64.43	VLOW,VLO	62.58	LOW,LOW,
Actr1b	MmuINT0(	chr1:36701	157	chr1:36702	33.28	SOK,SOK,1	37.81	SOK,SOK,2
Ppfia4	MmuINT01	chr1:1343(	1777	chr1:13431	10.96	SOK,SOK,5	16.9	SOK,SOK,5
Tyw5	MmuINT1(	chr1:57393	559	chr1:57394	16.98	OK,OK,4.2=	20.26	OK,OK,4.6=

Per2	MmuINT01	chr1:91432	503	chr1:91433	15.79	LOW,LOW,	18.64	OK,OK,6.5=
3110009E1	MmuINT0C	chr1:12016	5478	chr1:12016	6.43	OK,OK,1.0=	7.28	VLOW,VLO
Shcbp1l	MmuINT0C	chr1:15344	1772	chr1:15344	25	VLOW,VLO	16.13	VLOW,VLO
Sned1	MmuINT01	chr1:93281	301	chr1:93281	64.38	OK,OK,10.4	58.14	OK,OK,5.6=
Unc80	MmuINT01	chr1:66674	776	chr1:66673	32.61	OK,OK,11.6	33.12	OK,OK,7.9=
Uxs1	MmuINT1C	chr1:43805	1675	chr1:43807	7.73	OK,OK,0.0=	7.22	OK,OK,0.2=
Gm15832	MmuINT1C	chr1:39549	1337	chr1:39550	93.94	LOW,LOW,	92.31	VLOW,VLO
Rev1	MmuINT01	chr1:38074	4846	chr1:38079	27.63	OK,OK,6.7=	20.44	SOK,SOK,6.
Gmppa	MmuINT0C	chr1:75441	157	chr1:75441	27.43	SOK,SOK,2	33.88	SOK,SOK,2
Cep350	MmuINT0C	chr1:15596	10288	chr1:15597	20	OK,OK,0.5=	10.81	OK,OK,0.0=
Mgat4a	MmuINT0C	chr1:37450	1823	chr1:37452	10.08	OK,OK,1.4=	13.39	OK,OK,5.6=
Ino80dos	MmuINT1C	chr1:63144	12034	chr1:63144	32.14	LOW,LOW,	30	OK,OK,0.2=
Stk36	MmuINT01	chr1:74627	91	chr1:74627	11.63	LOW,LOW,	16.98	OK,OK,5.0=
Fmo1	MmuINT0C	chr1:16283	2246	chr1:16283	18.97	SOK,SOK,1	22.17	SOK,SOK,8.
Aldh9a1	MmuINT0C	chr1:16735	723	chr1:16735	29.89	SOK,SOK,2	28.65	SOK,SOK,3
Plekhm3	MmuINT01	chr1:64938	18155	chr1:64956	31.43	VLOW,VLO	33.33	VLOW,VLO
Gm16701	MmuINT1C	chr1:16697	7676	chr1:16698	28.64	OK,OK,6.5=	26.36	OK,OK,3.2=
Smg7	MmuINT1C	chr1:15284	523	chr1:15284	16.73	SOK,SOK,2	19.93	SOK,SOK,2
Stk11ip	MmuINT01	chr1:75521	121	chr1:75521	66.93	LOW,LOW,	51.66	VLOW,VLO
Stk11ip	MmuINT01	chr1:75527	125	chr1:75527	20.51	OK,OK,8.3=	19.61	OK,OK,10.1
Casp8	MmuINT0C	chr1:58827	1560	chr1:58827	13.04	OK,OK,1.9=	11.11	OK,OK,1.6=
Fastkd2	MmuINT0C	chr1:63735	273	chr1:63735	21.86	OK,OK,4.9=	19.51	OK,OK,2.8=
Sgk3	MmuINT01	chr1:98803	1188	chr1:98803	0	VLOW,VLO	0	LOW,LOW,
Coq8a	MmuINT0C	chr1:18017	2777	chr1:18018	14.29	VLOW,VLO	11.05	LOW,LOW,
Usp40	MmuINT1C	chr1:87967	797	chr1:87968	18.77	OK,OK,5.1=	11.89	OK,OK,3.9=
Usp40	MmuINT01	chr1:87952	1692	chr1:87954	34.13	OK,OK,8.1=	43.88	LOW,LOW,
Oprk1	MmuINT01	chr1:55893	9284	chr1:55890	33.33	VLOW,VLO	11.54	OK,OK,2.1=
Orc2	MmuINT01	chr1:58466	1537	chr1:58467	8.44	OK,OK,0.0=	13.39	OK,OK,0.0=
BC003331	MmuINT0C	chr1:15038	1334	chr1:15038	12.06	OK,OK,29.0	10.8	OK,OK,30.8
Cnnm3	MmuINT0C	chr1:36521	3326	chr1:36521	29.22	SOK,SOK,4.	21.54	SOK,SOK,5.
Cd46	MmuINT0C	chr1:19506	3403	chr1:19506	3.98	VLOW,VLO	5.06	LOW,LOW,
Gli2	MmuINT0C	chr1:11884	1325	chr1:11884	29.03	VLOW,VLO	33.33	VLOW,VLO
Wdr75	MmuINT01	chr1:45802	1747	chr1:45802	19.64	OK,OK,4.2=	24.37	OK,OK,7.2=
Ppip5k2	MmuINT01	chr1:97756	2234	chr1:97759	20.9	OK,OK,2.8=	13.75	OK,OK,7.0=
Plcd4	MmuINT01	chr1:74562	490	chr1:74562	13.95	OK,OK,0.9=	23.1	OK,OK,5.6=
Raph1	MmuINT01	chr1:60503	21996	chr1:60525	2.7	OK,OK,2.5=	6.53	OK,OK,2.8=
Ecel1	MmuINT0C	chr1:87149	625	chr1:87150	16.66	OK,OK,7.0=	19.31	SOK,SOK,1
Ecel1	MmuINT0C	chr1:87149	296	chr1:87149	15.48	OK,OK,4.4=	16.67	SOK,SOK,6.
Nyap2	MmuINT1C	chr1:81077	98	chr1:81077	65.33	LOW,LOW,	74.07	VLOW,VLO
Nav1	MmuINT01	chr1:13545	756	chr1:13545	48.45	SOK,SOK,1	50.11	SOK,SOK,1
Ptprn	MmuINT01	chr1:75252	225	chr1:75252	36.06	SOK,SOK,1	35.3	SOK,SOK,1
Slco5a1	MmuINT1C	chr1:12990	1564	chr1:12992	12.5	VLOW,VLO	11.11	LOW,LOW,
Slco5a1	MmuINT01	chr1:12876	2763	chr1:12879	17.31	OK,OK,11.1	18.92	OK,OK,8.3=
Ppox	MmuINT01	chr1:17128	132	chr1:17128	58.28	SOK,SOK,3	57.85	SOK,SOK,5
Zcchc2	MmuINT01	chr1:10601	2125	chr1:10601	12	OK,OK,3.5=	5.83	OK,OK,0.9=

Dctn2	MmuINT1C	chr10:1272	7231	chr10:1272	34.05	SOK,SOK,4	45.63	SOK,SOK,4
Ankrd52	MmuINT0C	chr10:1283	2228	chr10:1283	27.86	SOK,SOK,1	36.85	SOK,SOK,2
Slc18b1	MmuINT0C	chr10:2382	1186	chr10:2382	16.22	OK,OK,6.3=	17.39	OK,OK,7.4=
Dna2	MmuINT0C	chr10:6296	672	chr10:6296	0	VLOW,VLO	0	LOW,LOW,
Dna2	MmuINT0C	chr10:6296	1323	chr10:6296	48.39	VLOW,VLO	50	VLOW,VLO
Dna2	MmuINT0C	chr10:6296	2033	chr10:6296	5.88	LOW,LOW,	2.86	LOW,LOW,
Susd2	MmuINT01	chr10:7564	181	chr10:7564	25.27	VLOW,VLO	27.02	VLOW,VLO
Dgka	MmuINT0C	chr10:1287	368	chr10:1287	35.44	LOW,LOW,	38.18	LOW,LOW,
Dgka	MmuINT0C	chr10:1287	1693	chr10:1287	15.79	OK,OK,5.3=	18.03	OK,OK,4.8=
Dgka	MmuINT0C	chr10:1287	448	chr10:1287	19.05	LOW,LOW,	10.45	OK,OK,1.9=
Gm867	MmuINT1C	chr10:7593	805	chr10:7593	28.51	VLOW,VLO	13.73	OK,OK,63.1
Zfp280b	MmuINT01	chr10:7603	5484	chr10:7603	17.07	LOW,LOW,	9.68	VLOW,VLO
Armc2	MmuINT0C	chr10:4197	5063	chr10:4198	74.44	VLOW,VLO	86.85	VLOW,VLO
Prtn3	MmuINT01	chr10:7988	757	chr10:7988	8.52	OK,OK,1.9=	12.06	OK,OK,3.9=
Atp5d	MmuINT1C	chr10:8014	1494	chr10:8014	26.67	OK,OK,4.4=	25.53	OK,OK,6.5=
Traf3ip2	MmuINT01	chr10:3965	3402	chr10:3965	60	VLOW,VLO	47.37	VLOW,VLO
Enpp3	MmuINT0C	chr10:2477	710	chr10:2477	16.67	VLOW,VLO	8.33	VLOW,VLO
Rmst	MmuINT01	chr10:9213	390	chr10:9213	25.71	VLOW,VLO	15	LOW,LOW,
Rmst	MmuINT01	chr10:9213	404	chr10:9213	41.67	VLOW,VLO	35.85	LOW,LOW,
Ppil6	MmuINT01	chr10:4150	6531	chr10:4150	52.38	OK,OK,11.8	50	OK,OK,14.8
4930430F0	MmuINT0C	chr10:1005	1956	chr10:1005	19.63	SOK,SOK,1	22.11	SOK,SOK,1
Izumo4	MmuINT0C	chr10:8070	110	chr10:8070	26.8	SOK,SOK,4	40.58	SOK,SOK,7
Dot1l	MmuINT0C	chr10:8079	1945	chr10:8079	51.75	SOK,SOK,5	58.02	SOK,SOK,7
Arhgef25	MmuINT0C	chr10:1271	2172	chr10:1271	32.61	OK,OK,59.6	24.75	OK,OK,66.5
Shprh	MmuINT01	chr10:1116	1490	chr10:1116	7.27	OK,OK,2.5=	13.76	SOK,SOK,6.
Fbxo5	MmuINT1C	chr10:5802	2726	chr10:5805	15.75	OK,OK,0.7=	18.6	LOW,LOW,
Mars	MmuINT0C	chr10:1272	239	chr10:1272	54.13	SOK,SOK,5	57.78	SOK,SOK,5
Zdhhc17	MmuINT01	chr10:1109	877	chr10:1109	23.18	SOK,SOK,2	35.14	SOK,SOK,2
Zdhhc17	MmuINT01	chr10:1109	1336	chr10:1109	30.77	SOK,SOK,2	35.14	SOK,SOK,2
Atp2b1	MmuINT1C	chr10:9901	3910	chr10:9901	48.66	SOK,SOK,3	51.18	SOK,SOK,2
Zfc3h1	MmuINT01	chr10:1154	648	chr10:1154	57.99	SOK,SOK,3	63.06	SOK,SOK,4
Mterf2	MmuINT01	chr10:8512	1475	chr10:8512	37.25	LOW,LOW,	40	LOW,LOW,
Sppl2b	MmuINT0C	chr10:8086	739	chr10:8086	29.54	SOK,SOK,3	29.59	SOK,SOK,3
Ilvbl	MmuINT0C	chr10:7858	176	chr10:7858	16.11	SOK,SOK,8.	23.02	SOK,SOK,1
Rab36	MmuINT01	chr10:7504	690	chr10:7504	12.22	OK,OK,6.7=	8.22	OK,OK,7.2=
Polrmt	MmuINT01	chr10:7973	94	chr10:7973	24.48	SOK,SOK,4	29.08	SOK,SOK,5
Pan2	MmuINT01	chr10:1283	602	chr10:1283	18.92	SOK,SOK,8.	22.85	SOK,SOK,1
Mier2	MmuINT0C	chr10:7954	470	chr10:7954	30.71	SOK,SOK,3	33.66	SOK,SOK,4
Mettl1	MmuINT0C	chr10:1270	1243	chr10:1270	15.38	OK,OK,7.3=	8.61	OK,OK,8.6=
Mical1	MmuINT0C	chr10:4148	195	chr10:4148	17.28	SOK,SOK,1	19.02	SOK,SOK,1
Tube1	MmuINT01	chr10:3914	641	chr10:3914	45.52	VLOW,VLO	44.86	VLOW,VLO
Bicc1	MmuINT0C	chr10:7093	3586	chr10:7093	1.26	OK,OK,2.1=	2.7	OK,OK,0.5=
Syde1	MmuINT01	chr10:7859	1558	chr10:7859	2.4	LOW,OK,0.	10.44	LOW,OK,0.
Epb41l2	MmuINT0C	chr10:2549	1815	chr10:2549	8.97	OK,OK,8.3=	13.66	SOK,SOK,7.
Utp20	MmuINT01	chr10:8877	673	chr10:8877	43.24	LOW,LOW,	41.34	OK,OK,6.5=

Utp20	MmuINT01	chr10:8874	804	chr10:8874	14.15	SOK,SOK,1(	13.99	SOK,SOK,1
Grik2	MmuINT0C	chr10:4924	3528	chr10:4924	38.1	SOK,SOK,3	40.07	SOK,SOK,4
Abca7	MmuINT0C	chr10:800C	103	chr10:800C	20.71	VLOW,LOW	14.95	VLOW,VLO
Abca7	MmuINT0C	chr10:8001	88	chr10:8001	24.41	OK,OK,17.9	26.63	OK,OK,12.6
Vezt	MmuINT01	chr10:9399	3171	chr10:9399	13.25	SOK,SOK,6.	12.81	SOK,SOK,6.
Lin28b	MmuINT0C	chr10:4546	832	chr10:4547	22.03	OK,OK,2.3=	22.81	OK,OK,1.6=
Mdm1	MmuINT0C	chr10:1181	78	chr10:1181	26.83	OK,OK,27.8	23.08	OK,OK,16.9
Cep57l1	MmuINT0C	chr10:4172	616	chr10:4172	16.28	LOW,LOW,	27.27	LOW,LOW,
Ankrd24	MmuINT0C	chr10:8162	5116	chr10:8162	28.21	LOW,LOW,	36.7	OK,OK,0.2=
Ankrd24	MmuINT0C	chr10:8163	616	chr10:8163	29.27	OK,OK,21.4	32.26	SOK,SOK,2
Ankrd24	MmuINT0C	chr10:8164	2411	chr10:8164	33.88	OK,OK,62.1	44.9	OK,OK,73.5
Matk	MmuINT0C	chr10:8126	79	chr10:8126	34.24	SOK,SOK,3	40.21	SOK,SOK,4
Katna1	MmuINT0C	chr10:7759	911	chr10:7759	28	OK,OK,15.5	26.86	SOK,SOK,1
Plppr3	MmuINT0C	chr10:7986	141	chr10:7986	31.8	SOK,SOK,2	33.82	SOK,SOK,3
Stat2	MmuINT01	chr10:1282	206	chr10:1282	23.4	OK,OK,7.4=	19.38	OK,OK,12.3
Stat2	MmuINT01	chr10:1282	167	chr10:1282	34.94	SOK,SOK,2(	38.6	SOK,SOK,3
Mfap4	MmuINT0C	chr11:6148	72	chr11:6148	12.28	OK,OK,19.8	9.57	OK,OK,13.7
Ascc2	MmuINT0C	chr11:468C	1256	chr11:468C	17.02	SOK,SOK,6.	20	SOK,SOK,1
Slc26a11	MmuINT01	chr11:1193	1103	chr11:1193	29.27	OK,OK,1.6=	26.8	OK,OK,3.7=
Kcnab3	MmuINT0C	chr11:6933	155	chr11:6932	50.94	LOW,LOW,	51.61	LOW,LOW,
Sfi1	MmuINT01	chr11:3132	559	chr11:3132	43.75	SOK,SOK,1	41.9	SOK,SOK,1
Xaf1	MmuINT01	chr11:723C	1954	chr11:723C	6.67	VLOW,VLO	9.68	VLOW,VLO
Rph3al	MmuINT01	chr11:7583	1187	chr11:7583	6.67	VLOW,VLO	7.32	LOW,LOW,
Rsad1	MmuINT01	chr11:9454	206	chr11:9454	38.35	OK,OK,12.3	39.53	OK,OK,16.0
Taf15	MmuINT01	chr11:8348	8216	chr11:8348	30.34	SOK,SOK,2(	33.85	SOK,SOK,4(
Zzef1	MmuINT01	chr11:7291	4460	chr11:7291	31.48	SOK,SOK,2	35.9	SOK,SOK,2(
Arrb2	MmuINT0C	chr11:7043	290	chr11:7043	27.51	SOK,SOK,3	30.51	SOK,SOK,4
Notum	MmuINT01	chr11:1206	386	chr11:1206	39.39	VLOW,VLO	33.33	VLOW,VLO
Notum	MmuINT01	chr11:1206	741	chr11:1206	15.92	OK,OK,3.9=	27.78	VLOW,VLO
Pus10	MmuINT01	chr11:237C	1189	chr11:237C	47.83	VLOW,VLO	52.38	VLOW,VLO
Krt10	MmuINT1C	chr11:9938	261	chr11:9938	58.49	LOW,LOW,	53.85	LOW,LOW,
Cdk5rap3	MmuINT0C	chr11:9691	370	chr11:9691	18.9	SOK,SOK,1	19.79	SOK,SOK,3
Rasl10a	MmuINT01	chr11:5059	240	chr11:5059	55.81	SOK,SOK,2(	44.51	SOK,SOK,2(
Heatr6	MmuINT0C	chr11:8375	1480	chr11:8375	25.23	OK,OK,3.9=	22.39	OK,OK,7.7=
Tmc8	MmuINT01	chr11:1177	609	chr11:1177	0	VLOW,VLO	0	VLOW,VLO
Trim11	MmuINT01	chr11:5898	5409	chr11:5898	43.9	SOK,SOK,2	37.92	SOK,SOK,2
Trim11	MmuINT1C	chr11:5898	1044	chr11:5898	34.18	OK,SOK,24.	28.18	OK,SOK,18.
Trim11	MmuINT01	chr11:5898	81	chr11:5898	33.51	OK,SOK,55.	27.45	OK,SOK,54.
Rad51c	MmuINT01	chr11:874C	1041	chr11:874C	2.44	OK,OK,1.3=	19.3	OK,OK,1.3=
Cep131	MmuINT0C	chr11:120C	708	chr11:120C	34.79	SOK,SOK,2(	42.64	SOK,SOK,3
Eml6	MmuINT0C	chr11:2976	12876	chr11:2977	66.85	OK,OK,9.0=	61.37	OK,OK,13.7
Slc46a1	MmuINT01	chr11:7846	1986	chr11:7846	31.43	OK,OK,0.7=	39.82	OK,OK,0.9=
Inpp5j	MmuINT0C	chr11:3495	3674	chr11:3499	21.53	SOK,SOK,7.	22.8	SOK,SOK,1
Med24	MmuINT0C	chr11:9871	1384	chr11:9871	59.87	SOK,SOK,4	62.84	SOK,SOK,5
2310058D1	MmuINT1C	chr11:5896	9102	chr11:5897	36.11	OK,OK,2.3=	39.13	OK,OK,0.7=

Rnf215	MmuINT01	chr11:4136	414	chr11:4136	51.9	SOK,SOK,4	46.53	SOK,SOK,5
Dvl2	MmuINT0C	chr11:700C	862	chr11:700C	30.49	SOK,SOK,1	39.13	SOK,SOK,1
Nprl3	MmuINT01	chr11:3223	382	chr11:3223	21.02	SOK,SOK,1	30.36	SOK,SOK,1
Grin2c	MmuINT0C	chr11:1152	259	chr11:1152	16.87	LOW,LOW,	17.07	LOW,LOW,
Becn1	MmuINT0C	chr11:1012	633	chr11:1012	25.68	SOK,SOK,3	30.97	SOK,SOK,3
1700023F0	MmuINT1C	chr11:1031	176	chr11:1031	46.22	LOW,LOW,	33.34	OK,OK,6.3=
Adam11	MmuINT0C	chr11:1027	342	chr11:1027	34.19	SOK,SOK,2	36.06	SOK,SOK,3
BC017643	MmuINT0C	chr11:1212	400	chr11:1212	25.86	OK,OK,7.0=	22.33	OK,OK,8.6=
Exoc7	MmuINT0C	chr11:1162	4576	chr11:1163	53.98	OK,OK,16.7	42.2	SOK,SOK,2
Exoc7	MmuINT0C	chr11:1162	1387	chr11:1162	44.74	OK,OK,15.8	39.13	OK,OK,13.2
Dph1	MmuINT0C	chr11:7518	348	chr11:7518	24.12	OK,OK,5.6=	36.17	OK,OK,7.4=
Sec24a	MmuINT01	chr11:5173	656	chr11:5173	25	LOW,LOW,	22.22	OK,OK,4.9=
Abca5	MmuINT0C	chr11:1102	1040	chr11:1102	8.11	OK,OK,5.1=	6.61	OK,OK,2.8=
Gfpt2	MmuINT0C	chr11:498C	2635	chr11:498C	6.43	LOW,LOW,	14.66	VLOW,VLO
Gfpt2	MmuINT0C	chr11:4982	2993	chr11:4982	8.64	OK,OK,1.2=	13.33	OK,OK,1.2=
Xylt2	MmuINT1C	chr11:9467	6472	chr11:9467	14.86	OK,OK,3.5=	18.56	OK,OK,3.0=
B3gntl1	MmuINT0C	chr11:1216	8884	chr11:1216	0	VLOW,VLO	5	LOW,LOW,
B3gntl1	MmuINT0C	chr11:1216	5645	chr11:1216	11.11	OK,OK,3.2=	27.27	OK,OK,3.0=
Zkscan17	MmuINT1C	chr11:595C	1573	chr11:595C	39.71	SOK,SOK,0.	50.23	SOK,SOK,0.
Sat2	MmuINT01	chr11:6962	338	chr11:6962	67.78	SOK,SOK,1	68.39	SOK,SOK,2
Emid1	MmuINT0C	chr11:511C	6105	chr11:5116	14.78	OK,OK,5.6=	10.55	SOK,SOK,8.
Mllt6	MmuINT0C	chr11:9767	867	chr11:9767	35	SOK,SOK,1	35.75	SOK,SOK,1
Spag5	MmuINT01	chr11:7831	224	chr11:7831	2.78	LOW,LOW,	17.23	VLOW,VLO
Spag5	MmuINT01	chr11:7831	79	chr11:7831	12.82	LOW,LOW,	13.21	OK,OK,9.3=
Spag5	MmuINT01	chr11:7831	3425	chr11:7831	0	OK,OK,0.7=	7.26	OK,OK,2.1=
Spag5	MmuINT01	chr11:7831	407	chr11:7831	27.98	VLOW,VLO	29.26	OK,OK,105
2010001A1	MmuINT1C	chr11:5779	4836	chr11:578C	13.33	OK,OK,1.5=	21.95	LOW,LOW,
Map3k3	MmuINT0C	chr11:1061	477	chr11:1061	26.32	SOK,SOK,1	28.34	SOK,SOK,1
2810408A1	MmuINT0C	chr11:6989	229	chr11:6989	21.43	OK,OK,2.8=	14.29	OK,OK,1.9=
Engase	MmuINT0C	chr11:1184	1988	chr11:1184	4.35	OK,OK,4.9=	8.06	OK,OK,2.3=
Dcxr	MmuINT0C	chr11:1207	433	chr11:1207	0	LOW,LOW,	0	LOW,LOW,
Cd68	MmuINT0C	chr11:6966	83	chr11:6966	11.11	OK,OK,5.2=	18.64	OK,OK,6.2=
Tepsin	MmuINT0C	chr11:120C	709	chr11:120C	18.31	OK,OK,3.0=	24.05	OK,OK,4.2=
Tsen54	MmuINT01	chr11:1158	95	chr11:1158	27.27	OK,OK,13.7	20	OK,OK,6.8=
Fnip1	MmuINT0C	chr11:5448	1810	chr11:5448	20.93	LOW,LOW,	27.78	VLOW,VLO
Wnk4	MmuINT01	chr11:1012	90	chr11:1012	22.73	OK,OK,14.5	18.97	OK,OK,14.5
Fbf1	MmuINT0C	chr11:1161	1061	chr11:1161	14.04	SOK,SOK,7.	11.55	SOK,SOK,7.
Map2k3	MmuINT0C	chr11:6094	797	chr11:6094	10.59	OK,OK,2.1=	21.1	OK,OK,4.4=
Adprm	MmuINT0C	chr11:6704	811	chr11:6704	0	LOW,LOW,	0	LOW,LOW,
Llgl1	MmuINT0C	chr11:607C	152	chr11:607C	9.26	SOK,SOK,9.	8.53	SOK,SOK,1
Smarcd2	MmuINT1C	chr11:1062	4974	chr11:1062	7.5	OK,OK,4.6=	13.27	OK,OK,7.0=
Ccdc157	MmuINT0C	chr11:4147	661	chr11:4148	20.35	OK,OK,9.0=	10.47	OK,OK,7.7=
Car4	MmuINT0C	chr11:8496	599	chr11:8496	18.29	OK,OK,7.9=	22.55	SOK,SOK,7.
Ube2o	MmuINT01	chr11:1165	225	chr11:1165	18.43	SOK,SOK,4	20.67	SOK,SOK,6
Usp36	MmuINT01	chr11:1182	1667	chr11:1182	25.56	OK,OK,7.7=	21.56	OK,OK,6.5=

Scarf1	MmuINT01	chr11:7551	4605	chr11:7551	3.03	LOW,LOW,	9.09	OK,OK,2.8=
Zfp454	MmuINT1C	chr11:5088	2557	chr11:5088	31.25	OK,OK,2.5=	33.33	VLOW,VLO
Nat9	MmuINT01	chr11:1151	281	chr11:1151	21.21	SOK,SOK,1(	33.33	SOK,SOK,1
Nat9	MmuINT01	chr11:1151	798	chr11:1151	5.69	OK,OK,4.2=	10.26	OK,OK,4.2=
Ctns	MmuINT0C	chr11:7318	2885	chr11:7319	18.18	OK,OK,7.7=	30	OK,OK,8.1=
Abca8b	MmuINT0C	chr11:1099	3409	chr11:1099	35.14	VLOW,VLO	30	VLOW,VLO
Abca8b	MmuINT0C	chr11:1099	2212	chr11:1099	16.39	OK,OK,0.9=	15.23	OK,OK,0.9=
Casc3	MmuINT0C	chr11:9882	918	chr11:9882	13.57	SOK,SOK,2(	23.12	SOK,SOK,3(
Ybx2	MmuINT01	chr11:6993	648	chr11:6993	62.96	LOW,LOW,	58.33	OK,OK,26.2
Recql5	MmuINT01	chr11:1158	165	chr11:1158	16.93	OK,OK,4.5=	22.03	OK,OK,7.2=
Recql5	MmuINT01	chr11:1158	640	chr11:1158	11.99	OK,OK,6.7=	22.46	OK,OK,7.0=
Stard3	MmuINT01	chr11:9837	613	chr11:9837	8.77	OK,OK,2.1=	10.16	SOK,SOK,8.
Etv4	MmuINT0C	chr11:1017	1090	chr11:1017	44.22	SOK,SOK,4.	50.64	SOK,SOK,3.
Slc22a21	MmuINT01	chr11:5395	1879	chr11:5395	17.51	OK,OK,2.8=	10.71	OK,OK,1.6=
Myo19	MmuINT01	chr11:8488	330	chr11:8488	13.79	OK,OK,1.6=	7.07	OK,OK,1.9=
Myo19	MmuINT01	chr11:849C	1592	chr11:849C	65.02	LOW,LOW,	63.54	LOW,LOW,
Pcyt2	MmuINT01	chr11:1206	379	chr11:1206	41	SOK,SOK,6	45.87	SOK,SOK,8
Pnpt1	MmuINT01	chr11:2915	805	chr11:2915	32.9	SOK,SOK,2	39.23	SOK,SOK,2
Osbpl7	MmuINT01	chr11:9706	5000	chr11:9706	15.21	OK,OK,3.9=	29.21	OK,OK,3.9=
Ctc1	MmuINT0C	chr11:6903	417	chr11:6903	27.3	SOK,SOK,3	22.58	SOK,SOK,3
Itgb4	MmuINT0C	chr11:1159	283	chr11:1159	19.54	OK,OK,1.6=	23.91	LOW,LOW,
Afmid	MmuINT0C	chr11:1178	93	chr11:1178	3.03	LOW,LOW,	9.52	LOW,LOW,
Ezh1	MmuINT0C	chr11:1011	336	chr11:1011	28.78	OK,OK,4.6=	25.64	OK,OK,4.2=
Ezh1	MmuINT0C	chr11:1011	661	chr11:1011	26.13	OK,OK,12.3	35.63	OK,OK,7.0=
Cog1	MmuINT0C	chr11:1136	225	chr11:1136	7.97	SOK,SOK,1	7.46	SOK,SOK,9.
Rhbdl3	MmuINT01	chr11:8033	9238	chr11:8033	1.82	OK,OK,0.5=	3.57	OK,OK,0.5=
Dnah9	MmuINT0C	chr11:6585	3992	chr11:6585	7.43	OK,OK,2.5=	2.61	OK,OK,0.7=
Dnah2	MmuINT0C	chr11:6947	98	chr11:6947	6.67	OK,OK,3.6=	7.04	OK,OK,6.4=
Dnah2	MmuINT0C	chr11:6947	1138	chr11:6947	6.91	OK,OK,0.9=	6.05	OK,OK,1.2=
Dnah2	MmuINT0C	chr11:6942	612	chr11:6942	2.96	LOW,LOW,	3.16	VLOW,LOW
Slc25a10	MmuINT01	chr11:1204	307	chr11:1204	12.28	OK,OK,3.0=	22.29	OK,OK,9.7=
Slc43a2	MmuINT01	chr11:7556	3270	chr11:7556	25.19	OK,OK,5.8=	26.74	OK,OK,9.5=
Cep95	MmuINT0C	chr11:1068	1438	chr11:1068	24.93	OK,OK,3.0=	18.49	OK,OK,3.7=
Cep95	MmuINT0C	chr11:1068	1028	chr11:1068	27.71	OK,OK,8.8=	28.42	OK,OK,8.6=
Bcl6b	MmuINT0C	chr11:7022	553	chr11:7022	26.47	OK,OK,0.2=	32.26	OK,OK,0.2=
Ints2	MmuINT0C	chr11:8625	874	chr11:8625	44.8	OK,OK,6.7=	49.57	OK,OK,6.5=
Ints2	MmuINT0C	chr11:8622	1493	chr11:8622	24.17	OK,OK,4.2=	21.5	OK,OK,5.6=
P3h4	MmuINT0C	chr11:1004	779	chr11:1004	8.22	OK,OK,3.5=	8.89	OK,OK,3.0=
4-Sep	MmuINT01	chr11:8758	2092	chr11:8758	37.78	VLOW,VLO	43.59	VLOW,VLO
Fstl4	MmuINT0C	chr11:5318	1495	chr11:5318	2.13	OK,OK,2.3=	3.33	OK,OK,2.8=
Fmnl1	MmuINT0C	chr11:1031	2853	chr11:1031	76.43	LOW,LOW,	57.55	VLOW,VLO
Tanc2	MmuINT01	chr11:1059	1402	chr11:1059	25	OK,OK,11.4	25.3	OK,OK,10.(
Ska2	MmuINT0C	chr11:871C	6799	chr11:871C	20.48	OK,OK,0.7=	18.52	OK,OK,0.2=
Hus1	MmuINT0C	chr11:901C	434	chr11:9011	70.67	OK,OK,11.6	62.96	LOW,LOW,
Mtmr4	MmuINT01	chr11:8759	3762	chr11:8759	25.22	OK,OK,7.0=	25.89	OK,OK,8.1=

Rgs9	MmuINT1C	chr11:1092	8295	chr11:1092	28.81	SOK,SOK,6!	29.94	SOK,SOK,7:
Acsl6	MmuINT0C	chr11:5433	1810	chr11:5433	34.19	SOK,SOK,3(	35.71	SOK,SOK,4!
Sphk1	MmuINT1C	chr11:1165	678	chr11:1165	20	VLOW,VLO	16.67	VLOW,VLO
1810032O(	MmuINT1C	chr11:1166	407	chr11:1166	26.21	OK,OK,6.0=	30.43	SOK,SOK,1:
Abca9	MmuINT0C	chr11:1101	940	chr11:1101	2.51	OK,OK,0.0=	4.17	OK,OK,0.2=
Mks1	MmuINT0C	chr11:8786	325	chr11:8786	8.57	LOW,LOW,	14.29	LOW,LOW,
Mks1	MmuINT0C	chr11:8786	608	chr11:8786	62.28	LOW,LOW,	66.52	OK,OK,10.9
Rfng	MmuINT01	chr11:1207	289	chr11:1207	35.58	SOK,SOK,1(	32.96	SOK,SOK,1(
Spns2	MmuINT01	chr11:7245	1904	chr11:7245	22.6	SOK,SOK,1:	23.96	SOK,SOK,1!
Pfas	MmuINT01	chr11:6899	293	chr11:6899	4.71	OK,OK,11.6	4.43	OK,OK,11.6
Cntrob	MmuINT0C	chr11:6932	429	chr11:6932	9.23	OK,OK,6.3=	11.11	OK,OK,5.5=
Adamts2	MmuINT0C	chr11:5077	1866	chr11:5077	5.88	OK,OK,1.2=	10.14	OK,OK,1.4=
Adamts2	MmuINT0C	chr11:5079	2464	chr11:5079	13.62	OK,OK,3.5=	7.24	OK,OK,5.8=
Cacna1g	MmuINT0C	chr11:9443	4540	chr11:9444	44.12	LOW,LOW,	47.14	LOW,LOW,
Fbxl20	MmuINT0C	chr11:9810	7697	chr11:9810	8.74	OK,OK,2.3=	7.27	OK,OK,1.6=
Lhx1os	MmuINT1C	chr11:8452	8731	chr11:8452	40.74	LOW,LOW,	36.36	VLOW,VLO
Odf4	MmuINT1C	chr11:6892	286	chr11:6892	100	VLOW,VLO	100	VLOW,VLO
Rffl	MmuINT1C	chr11:8281	809	chr11:8281	15.77	OK,OK,0.9=	11.25	OK,OK,3.5=
Nrde2	MmuINT0C	chr12:1001	924	chr12:1001	7.97	OK,OK,4.4=	11.92	SOK,SOK,4.
Sntg2	MmuINT01	chr12:3025	8937	chr12:3026	12.2	LOW,LOW,	16.94	VLOW,VLO
Syne2	MmuINT01	chr12:7594	90	chr12:7594	0	LOW,LOW,	0	OK,OK,0.0=
Ttc9	MmuINT1C	chr12:8166	24	chr12:8166	100	SOK,SOK,N	100	SOK,SOK,N
Fam228b	MmuINT0C	chr12:4764	4242	chr12:4768	3.23	LOW,LOW,	10.34	VLOW,VLO
Cenpo	MmuINT0C	chr12:4215	1088	chr12:4216	2.44	OK,OK,1.2=	2.33	OK,OK,1.2=
Klhdc1	MmuINT0C	chr12:6926	5020	chr12:6926	18.18	OK,OK,1.4=	14.13	OK,OK,2.1=
Hdac9	MmuINT1C	chr12:3443	3914	chr12:3443	42.86	LOW,LOW,	33.33	OK,OK,0.9=
F730043M	MmuINT1C	chr12:3314	1521	chr12:3314	9.09	OK,OK,0.7=	6.98	OK,OK,0.7=
F730043M	MmuINT0C	chr12:3313	1169	chr12:3314	20	OK,OK,19.1	9.8	OK,OK,14.6
F730043M	MmuINT1C	chr12:3313	1845	chr12:3313	28.47	OK,OK,12.3	28.57	OK,OK,13.7
Asxl2	MmuINT0C	chr12:3457	12268	chr12:3457	29.73	VLOW,VLO	22.03	OK,OK,3.2=
Dus4l	MmuINT0C	chr12:3165	2248	chr12:3165	7.69	LOW,LOW,	28.57	LOW,LOW,
Ccdc88c	MmuINT0C	chr12:1009	1584	chr12:1009	11.43	SOK,SOK,8.	10.69	SOK,SOK,1:
Sptlc2	MmuINT01	chr12:8734	3958	chr12:8734	34.67	SOK,SOK,2!	33.33	SOK,SOK,3:
Gm527	MmuINT0C	chr12:6492	1092	chr12:6492	21.31	OK,OK,3.2=	29.17	LOW,LOW,
Gemin2	MmuINT01	chr12:5902	1234	chr12:5902	11.11	LOW,LOW,	11.11	OK,OK,2.5=
Nrcam	MmuINT01	chr12:4457	13318	chr12:4457	23.28	SOK,SOK,8.	24.14	SOK,SOK,1(
Exd2	MmuINT0C	chr12:8049	207	chr12:8049	45.61	SOK,SOK,4(	41.67	SOK,SOK,5
Coch	MmuINT0C	chr12:5159	950	chr12:5159	6.67	OK,OK,4.9=	7.89	OK,OK,3.7=
Srsf5	MmuINT1C	chr12:8094	1229	chr12:8094	52.56	SOK,SOK,5!	46.67	SOK,SOK,5:
Ppp4r4	MmuINT01	chr12:1035	1529	chr12:1035	15.57	OK,OK,2.1=	17.18	OK,OK,3.5=
Pxdn	MmuINT01	chr12:2999	618	chr12:2999	60.33	SOK,SOK,7!	57.74	SOK,SOK,1(
Slc38a6	MmuINT01	chr12:7334	1044	chr12:7334	10.75	OK,OK,6.8=	10.22	OK,OK,2.9=
Mta1	MmuINT01	chr12:1131	2220	chr12:1131	37.15	SOK,SOK,3:	44.7	SOK,SOK,4:
Nemf	MmuINT01	chr12:6932	2657	chr12:6932	32.03	SOK,SOK,8.	24.13	SOK,SOK,1:
Bbof1	MmuINT0C	chr12:8443	139	chr12:8443	9.33	OK,OK,2.3=	3.33	OK,OK,1.9=

Tdp1	MmuINT01	chr12:9991	1332	chr12:9991	26.32	SOK,SOK,1	24.89	SOK,SOK,2
Clmn	MmuINT0C	chr12:1047	645	chr12:1047	9.09	VLOW,VLO	22.39	OK,OK,2.8=
Spata7	MmuINT01	chr12:9863	2186	chr12:9863	28.3	LOW,LOW,	23.53	OK,OK,1.4=
Map3k9	MmuINT1C	chr12:8172	3848	chr12:8172	77.57	OK,OK,23.9	85.6	SOK,SOK,3
Pomt2	MmuINT01	chr12:8713	1276	chr12:8713	14.58	OK,OK,2.8=	11.9	OK,OK,5.3=
Pomt2	MmuINT01	chr12:8711	1481	chr12:8711	4.61	OK,OK,3.9=	9.17	OK,OK,3.5=
Pomt2	MmuINT01	chr12:8711	462	chr12:8711	13.75	OK,OK,4.2=	15.41	OK,OK,3.9=
Cys1	MmuINT0C	chr12:2466	262	chr12:2466	73.81	OK,OK,15.8	72.22	OK,OK,11.1
Map4k5	MmuINT0C	chr12:6984	1386	chr12:6984	11.59	OK,OK,6.5=	13.25	OK,OK,6.5=
2700049A0	MmuINT1C	chr12:7121	23644	chr12:7121	7.06	OK,OK,1.9=	9.97	OK,OK,2.3=
Sstr1	MmuINT01	chr12:5821	364	chr12:5821	70.37	VLOW,VLO	71.01	LOW,LOW,
Nin	MmuINT01	chr12:7001	3147	chr12:7002	26.62	SOK,SOK,4	18.96	SOK,SOK,4
Nin	MmuINT01	chr12:7001	2616	chr12:7001	5.43	SOK,SOK,2.	7.74	SOK,SOK,4.
Jag2	MmuINT0C	chr12:1129	161	chr12:1129	33.28	SOK,SOK,3	27.51	SOK,SOK,3
Jag2	MmuINT0C	chr12:1129	87	chr12:1129	21.18	SOK,SOK,4	27.88	SOK,SOK,8
Gstz1	MmuINT0C	chr12:8716	1299	chr12:8716	22.94	SOK,SOK,1	19.33	SOK,SOK,1
Itsn2	MmuINT1C	chr12:4640	8989	chr12:4640	0.71	OK,OK,14.8	2.76	OK,OK,10.0
Ttc8	MmuINT01	chr12:9896	10034	chr12:9896	13.31	OK,OK,13.3	21.76	OK,OK,11.5
Dnal1	MmuINT0C	chr12:8411	6883	chr12:8411	22.82	OK,OK,4.2=	38.84	OK,OK,3.0=
Pdlim7	MmuINT1C	chr13:5550	121	chr13:5550	33.23	SOK,SOK,1	34.73	SOK,SOK,1
Pdlim7	MmuINT01	chr13:5549	5436	chr13:5550	12.82	OK,OK,4.2=	7.44	OK,OK,3.7=
Fancc	MmuINT0C	chr13:6333	1220	chr13:6333	22.88	VLOW,VLO	22.99	OK,OK,7.0=
Map3k1	MmuINT0C	chr13:1117	3759	chr13:1117	7.32	LOW,LOW,	7.32	OK,OK,2.5=
Map3k1	MmuINT0C	chr13:1117	741	chr13:1117	25.7	OK,OK,7.0=	17.65	OK,OK,6.0=
Map3k1	MmuINT0C	chr13:1117	1242	chr13:1117	12.2	OK,OK,2.5=	8.26	OK,OK,2.1=
Map3k1	MmuINT0C	chr13:1117	1393	chr13:1117	9.68	OK,OK,1.2=	8.91	OK,OK,2.1=
Iars	MmuINT0C	chr13:4970	1008	chr13:4970	11.59	SOK,SOK,1	12.95	SOK,SOK,8.
Mtx3	MmuINT01	chr13:9284	345	chr13:9284	15.52	OK,OK,3.9=	15.56	LOW,LOW,
Mtx3	MmuINT01	chr13:9284	1214	chr13:9284	53.22	SOK,SOK,2	55.93	SOK,SOK,3
Ice1	MmuINT0C	chr13:7060	1357	chr13:7061	61.56	SOK,SOK,5	56.39	SOK,SOK,7
Mtr	MmuINT01	chr13:1224	1859	chr13:1224	11.63	LOW,LOW,	2.56	LOW,LOW,
Mtr	MmuINT01	chr13:1220	4464	chr13:1220	0	OK,OK,1.6=	9.34	VLOW,VLO
Secisbp2	MmuINT01	chr13:5167	1554	chr13:5167	25.4	SOK,SOK,7.	23.83	SOK,SOK,9.
Simc1	MmuINT0C	chr13:5452	617	chr13:5452	25	OK,OK,5.1=	22.3	OK,OK,7.0=
Fcho2	MmuINT1C	chr13:9874	2012	chr13:9875	48.21	LOW,OK,71	55.33	LOW,OK,7
Brd9	MmuINT0C	chr13:7394	348	chr13:7394	18.15	SOK,SOK,3	22.78	SOK,SOK,3
Rpp40	MmuINT01	chr13:3590	662	chr13:3590	4.17	OK,OK,0.7=	0	OK,OK,0.2=
Lgals8	MmuINT0C	chr13:1245	2110	chr13:1246	5.45	OK,OK,0.5=	14.81	OK,OK,1.9=
Heatr1	MmuINT0C	chr13:1241	2812	chr13:1241	6.57	OK,OK,2.3=	9.01	OK,OK,3.0=
Ercc8	MmuINT0C	chr13:1081	1996	chr13:1081	9.73	OK,OK,2.3=	10.81	OK,OK,5.1=
4930470G0	MmuINT1C	chr13:2144	728	chr13:2144	89.61	LOW,LOW,	81.82	VLOW,VLO
Tert	MmuINT01	chr13:7363	669	chr13:7363	29.41	VLOW,VLO	29.14	VLOW,VLO
Tert	MmuINT01	chr13:7363	728	chr13:7363	21.54	OK,OK,4.9=	20.75	OK,OK,2.1=
Tbce	MmuINT01	chr13:1400	810	chr13:1401	58.55	SOK,SOK,7	67	SOK,SOK,9
Nkd2	MmuINT01	chr13:7384	253	chr13:7384	4.76	OK,OK,0.7=	2.33	OK,OK,0.9=

Dimt1	MmuINT1C	chr13:1069	75	chr13:1069	26.67	OK,OK,67.3	27.13	OK,OK,60.6
Slc12a7	MmuINT01	chr13:7379	571	chr13:7379	0	VLOW,VLO	9.78	LOW,LOW,
Pitrm1	MmuINT01	chr13:6574	585	chr13:6574	37.29	SOK,SOK,28	37.05	SOK,SOK,2
Riok1	MmuINT01	chr13:3804	1294	chr13:3804	12.62	OK,OK,3.9=	16.78	OK,OK,3.0=
Adamts16	MmuINT0C	chr13:7076	1429	chr13:7077	34.74	LOW,LOW,	37.7	LOW,LOW,
Utp15	MmuINT01	chr13:9825	1190	chr13:9825	20.47	SOK,SOK,7.	32.45	SOK,SOK,1
Slc35b3	MmuINT01	chr13:3893	1821	chr13:3893	41.77	SOK,SOK,15	52.8	SOK,SOK,25
Card19	MmuINT0C	chr13:4920	139	chr13:4920	39.66	OK,OK,19.8	37.19	OK,OK,21.0
Gm15440	MmuINT1C	chr13:5169	9338	chr13:5170	73.68	VLOW,VLO	63.48	VLOW,VLO
Zkscan3	MmuINT1C	chr13:2139	6097	chr13:2140	43.12	OK,OK,8.3=	36.76	OK,OK,5.6=
Zcchc6	MmuINT01	chr13:5978	840	chr13:5978	11.86	SOK,SOK,10	15.28	SOK,SOK,18
Arhgef40	MmuINT0C	chr14:5199	1059	chr14:5199	5.28	SOK,SOK,1.	4.47	SOK,SOK,5.
Arhgef40	MmuINT0C	chr14:5200	1191	chr14:5200	34.29	SOK,SOK,31	39.66	SOK,SOK,44
Arhgef40	MmuINT0C	chr14:5200	495	chr14:5200	35.45	SOK,SOK,34	35.29	SOK,SOK,38
Arhgef40	MmuINT0C	chr14:5200	246	chr14:5200	58.5	SOK,SOK,48	55.71	SOK,SOK,58
Cpne6	MmuINT0C	chr14:5551	1248	chr14:5551	63.38	SOK,SOK,43	58.52	SOK,SOK,61
Anxa11	MmuINT0C	chr14:2587	1045	chr14:2587	4.17	OK,OK,0.2=	3.45	OK,OK,1.2=
Ipo4	MmuINT0C	chr14:5562	1116	chr14:5562	26.49	SOK,SOK,53	35	SOK,SOK,71
9930012K1	MmuINT0C	chr14:7015	139	chr14:7015	31.58	VLOW,VLO	24.32	VLOW,VLO
Tep1	MmuINT01	chr14:5082	1705	chr14:5082	12.25	VLOW,VLO	18.89	LOW,LOW,
Ccdc66	MmuINT0C	chr14:2750	4955	chr14:2750	8.97	OK,OK,2.3=	9.17	OK,OK,2.5=
Lmo7	MmuINT0C	chr14:1019	1886	chr14:1019	34.25	SOK,SOK,10	43.48	SOK,SOK,18
Pck2	MmuINT01	chr14:5554	302	chr14:5554	29.08	OK,OK,8.6=	17.86	OK,OK,7.7=
Gm16835	MmuINT1C	chr14:1191	4981	chr14:1191	38.1	VLOW,VLO	32	LOW,LOW,
Ints6	MmuINT0C	chr14:6270	660	chr14:6270	9.48	OK,OK,5.6=	14.83	OK,OK,5.1=
Ap1g2	MmuINT0C	chr14:5510	494	chr14:5510	24.65	OK,OK,10.0	22.3	SOK,SOK,14
Ap1g2	MmuINT0C	chr14:5510	136	chr14:5510	30.61	OK,OK,12.9	37.29	OK,OK,19.3
Usp54	MmuINT01	chr14:2057	5735	chr14:2058	12.82	LOW,LOW,	8.7	OK,OK,0.2=
Usp54	MmuINT01	chr14:2056	4185	chr14:2057	25.39	OK,OK,5.1=	25.96	OK,OK,6.0=
Dennd6a	MmuINT1C	chr14:2662	1250	chr14:2662	24.24	OK,OK,11.1	23.08	OK,OK,10.9
Reep4	MmuINT01	chr14:7054	738	chr14:7054	25.93	VLOW,VLO	22.45	LOW,LOW,
Zswim8	MmuINT0C	chr14:2071	1084	chr14:2071	30.17	SOK,SOK,23	28.36	SOK,SOK,31
Tmem260	MmuINT0C	chr14:4848	2905	chr14:4848	0	OK,OK,0.5=	0	LOW,LOW,
Cdh24	MmuINT0C	chr14:5463	434	chr14:5463	11.17	SOK,SOK,9.	11.53	SOK,SOK,9.
Wdhd1	MmuINT1C	chr14:4725	2260	chr14:4725	26.83	OK,OK,0.9=	28.57	OK,OK,1.9=
Wdhd1	MmuINT1C	chr14:4724	375	chr14:4724	17.75	OK,OK,1.6=	10.83	OK,OK,1.4=
Wdhd1	MmuINT01	chr14:4724	174	chr14:4724	13.29	OK,OK,2.5=	7.99	OK,OK,2.5=
Mettl17	MmuINT0C	chr14:5188	1375	chr14:5188	13.79	SOK,SOK,6.	17.22	SOK,SOK,1
Mettl17	MmuINT0C	chr14:5189	380	chr14:5189	29.4	SOK,SOK,19	30.82	SOK,SOK,2
Dnah1	MmuINT0C	chr14:3126	129	chr14:3126	0	VLOW,VLO	7.28	LOW,LOW,
Polr3a	MmuINT01	chr14:2445	2658	chr14:2445	3.09	OK,OK,3.5=	3.13	OK,OK,5.1=
Polr3a	MmuINT01	chr14:2445	186	chr14:2445	17.28	SOK,SOK,12	18.36	SOK,SOK,10
Fam160b2	MmuINT0C	chr14:7058	599	chr14:7058	10.2	OK,OK,4.6=	5.81	OK,OK,3.2=
Fam160b2	MmuINT0C	chr14:7058	122	chr14:7058	36.36	SOK,SOK,27	34.38	SOK,SOK,28
Phf7	MmuINT01	chr14:3123	394	chr14:3123	6.45	OK,OK,0.7=	8.82	OK,OK,1.4=

Il3ra	MmuINT0C	chr14:1434	662	chr14:1434	41.46	VLOW,VLO	32.2	OK,OK,5.6=
Cog3	MmuINT0C	chr14:7574	585	chr14:7574	2.7	OK,OK,1.9=	4.62	OK,OK,1.4=
Ccser2	MmuINT0C	chr14:3687	10579	chr14:3689	44.61	SOK,SOK,8.	49.81	SOK,SOK,6.
Lgi3	MmuINT0C	chr14:7053	797	chr14:7053	11.43	OK,OK,3.2=	6.01	OK,OK,3.2=
Mir124a-1l	MmuINT1C	chr14:6458	622	chr14:6458	86.67	LOW,LOW,	90.62	OK,OK,4.6=
Prkcd	MmuINT01	chr14:3060	1261	chr14:3060	11.91	OK,OK,5.6=	11.87	OK,SOK,6.5
Tgds	MmuINT01	chr14:1181	1843	chr14:1181	18.64	OK,OK,3.0=	20	OK,OK,4.2=
Tgds	MmuINT01	chr14:1181	723	chr14:1181	9.62	LOW,LOW,	16.46	LOW,LOW,
Osgep	MmuINT1C	chr14:5091	196	chr14:5091	6.22	SOK,SOK,7.	6.44	SOK,SOK,9.
Itih3	MmuINT0C	chr14:3091	487	chr14:3091	35.04	LOW,LOW,	41.35	LOW,LOW,
Pxk	MmuINT01	chr14:8155	8589	chr14:8155	51.97	SOK,SOK,7.	49.56	SOK,SOK,6.
Dcp1a	MmuINT0C	chr14:3050	7299	chr14:3050	14.29	OK,OK,0.2=	16.36	OK,OK,0.2=
Rnf31	MmuINT01	chr14:5559	1779	chr14:5559	12.3	SOK,SOK,4.	10.93	SOK,SOK,6.
Dcaf11	MmuINT0C	chr14:5556	317	chr14:5556	7.78	SOK,SOK,8.	12.29	SOK,SOK,1
Cyth4	MmuINT0C	chr15:7861	809	chr15:7861	12.73	OK,OK,3.5=	10.2	OK,OK,3.0=
Slc11a2	MmuINT01	chr15:1004	465	chr15:1004	42.13	SOK,SOK,2	44.06	SOK,SOK,3
Pla2g6	MmuINT01	chr15:7930	3005	chr15:7930	34.41	OK,OK,3.9=	35.33	OK,OK,1.9=
Pla2g6	MmuINT01	chr15:7928	1347	chr15:7928	33.85	OK,OK,15.5	37.65	SOK,SOK,1
Trabd	MmuINT01	chr15:8908	231	chr15:8908	13.19	SOK,SOK,7.	22.02	SOK,SOK,1
Mtss1	MmuINT01	chr15:5894	1306	chr15:5894	49.4	SOK,SOK,3	43.24	SOK,SOK,3
Hdac10	MmuINT1C	chr15:8912	203	chr15:8912	55	OK,OK,19.9	56.76	SOK,SOK,3
Hdac10	MmuINT1C	chr15:8912	278	chr15:8912	61.66	SOK,SOK,4	62.48	SOK,SOK,6
Naprt	MmuINT01	chr15:7589	169	chr15:7589	9.47	OK,OK,4.4=	9.24	OK,OK,2.6=
Naprt	MmuINT01	chr15:7589	351	chr15:7589	16.67	OK,OK,2.1=	22.67	OK,OK,3.5=
Ly6e	MmuINT0C	chr15:7495	231	chr15:7495	76.58	OK,OK,19.2	82.4	SOK,SOK,2
Fmnl3	MmuINT0C	chr15:9931	330	chr15:9931	22.91	OK,OK,11.8	24.7	SOK,SOK,1
Cbx7	MmuINT1C	chr15:7991	2546	chr15:7992	85.19	OK,OK,7.7=	81.82	OK,OK,7.4=
Pfkm	MmuINT01	chr15:9812	366	chr15:9812	23.7	SOK,SOK,6	27.01	SOK,SOK,7
Dgat1	MmuINT0C	chr15:7650	1859	chr15:7650	41.11	SOK,SOK,4	50.49	SOK,SOK,5
Dgat1	MmuINT0C	chr15:7650	82	chr15:7650	35.73	SOK,SOK,9	42.17	SOK,SOK,1
Zfp641	MmuINT01	chr15:9829	2226	chr15:9829	29.41	OK,OK,9.7=	45.16	LOW,LOW,
Dmc1	MmuINT0C	chr15:7956	6056	chr15:7956	4	VLOW,VLO	0	LOW,LOW,
Tonsl	MmuINT01	chr15:7663	258	chr15:7663	22.58	OK,OK,4.4=	35.48	OK,OK,8.6=
Tcf20	MmuINT01	chr15:8280	5823	chr15:8281	49.32	OK,OK,8.1=	52.24	OK,OK,11.4
Hdac7	MmuINT0C	chr15:9780	1273	chr15:9780	52.77	OK,OK,19.5	46.39	OK,OK,34.5
Fam227a	MmuINT0C	chr15:7964	1368	chr15:7964	21.31	OK,OK,4.2=	29.41	OK,OK,7.7=
Adamts12	MmuINT0C	chr15:1133	4433	chr15:1133	0	VLOW,VLO	3.14	LOW,LOW,
Mapk11	MmuINT0C	chr15:8914	2559	chr15:8914	29.84	SOK,SOK,1	17.39	SOK,SOK,1
Mapk11	MmuINT0C	chr15:8914	199	chr15:8914	48.53	SOK,SOK,4	52.25	SOK,SOK,5
Dap	MmuINT0C	chr15:3122	11189	chr15:3122	1.01	OK,OK,0.4=	2.65	OK,OK,0.4=
Ptk2	MmuINT1C	chr15:7321	5081	chr15:7321	32.61	OK,OK,9.5=	38.16	OK,OK,12.8
Nipbl	MmuINT1C	chr15:8291	546	chr15:8292	23.02	SOK,SOK,2	28.08	SOK,SOK,1
Fbxl7	MmuINT0C	chr15:2654	8620	chr15:2655	0	OK,OK,0.0=	4	VLOW,VLO
Xpnpep3	MmuINT01	chr15:8140	14144	chr15:8140	16.13	VLOW,VLO	20	LOW,LOW,
K230010J2	MmuINT1C	chr15:7603	68	chr15:7603	85.71	VLOW,VLO	88.89	VLOW,VLO

Cdh9	MmuINT0C	chr15:1682	4890	chr15:1682	11.11	OK,OK,3.5=	8.3	OK,OK,1.6=
Lifr	MmuINT0C	chr15:7185	1132	chr15:7185	28.89	LOW,LOW,	19.48	OK,OK,6.5=
Scrib	MmuINT01	chr15:7604	155	chr15:7604	26.89	SOK,SOK,5	33.7	SOK,SOK,7
Rspo2	MmuINT01	chr15:4316	118	chr15:4317	71.43	VLOW,VLO	81.82	OK,OK,15.7
Tubgcp6	MmuINT01	chr15:8910	749	chr15:8911	1.3	OK,OK,1.9=	10.34	OK,OK,0.7=
Tubgcp6	MmuINT01	chr15:8910	213	chr15:8910	47.38	SOK,SOK,2	49.86	SOK,SOK,2
Csad	MmuINT0C	chr15:1021	164	chr15:1021	15.32	SOK,SOK,1	16.25	SOK,SOK,1
Csad	MmuINT0C	chr15:1021	740	chr15:1021	28.98	SOK,SOK,1	27.34	SOK,SOK,1
Tnrc6b	MmuINT01	chr15:8088	5173	chr15:8088	24.79	OK,OK,0.2=	22.52	LOW,LOW,
Lmbr1l	MmuINT0C	chr15:9891	2628	chr15:9891	16.28	SOK,SOK,6.	17.5	SOK,SOK,8.
Lmbr1l	MmuINT0C	chr15:9890	2039	chr15:9891	26.37	SOK,SOK,7.	23.77	SOK,SOK,1
Zfp740	MmuINT1C	chr15:1022	345	chr15:1022	70.53	SOK,SOK,8	69.4	SOK,SOK,7
Prickle1	MmuINT01	chr15:9351	83057	chr15:9359	17.86	OK,OK,0.2=	23.4	LOW,LOW,
Dnah5	MmuINT1C	chr15:2839	6166	chr15:2839	0	VLOW,VLO	0	VLOW,VLO
Prph	MmuINT01	chr15:9905	340	chr15:9905	0	LOW,LOW,	0	OK,OK,0.0=
Pop1	MmuINT01	chr15:3451	706	chr15:3451	29.01	LOW,LOW,	25.07	OK,OK,3.2=
Zfp7	MmuINT01	chr15:7688	1659	chr15:7688	30.77	LOW,LOW,	25.93	OK,OK,6.3=
Sh3bp1	MmuINT1C	chr15:7891	1239	chr15:7891	24.27	OK,OK,3.2=	17.07	OK,OK,5.6=
Mtbp	MmuINT01	chr15:5560	4138	chr15:5560	18.92	LOW,LOW,	9.09	LOW,LOW,
Slc4a8	MmuINT01	chr15:1008	2593	chr15:1008	16.84	SOK,SOK,1	16.25	SOK,SOK,1
Oplah	MmuINT01	chr15:7630	438	chr15:7630	8.5	LOW,LOW,	10.28	OK,OK,2.5=
Oplah	MmuINT01	chr15:7630	598	chr15:7630	11.34	OK,OK,0.9=	12.12	OK,OK,2.5=
Oplah	MmuINT01	chr15:7630	92	chr15:7630	4.65	OK,OK,4.1=	9.52	OK,OK,11.4
Adamts20	MmuINT1C	chr15:9434	2429	chr15:9435	53.85	VLOW,VLO	51.61	LOW,LOW,
Mpped1	MmuINT01	chr15:8378	7024	chr15:8378	78.87	SOK,SOK,1	82.11	SOK,SOK,1
Scn8a	MmuINT01	chr15:1009	9326	chr15:1009	27.78	SOK,SOK,7.	26.48	SOK,SOK,1
Atad2	MmuINT0C	chr15:5811	1078	chr15:5811	2.49	LOW,LOW,	0	VLOW,VLO
Adck5	MmuINT0C	chr15:7659	126	chr15:7659	11.11	OK,OK,3.6=	23.81	OK,OK,10.4
Adck5	MmuINT0C	chr15:7659	78	chr15:7659	53.12	OK,OK,70.0	60.31	SOK,SOK,7
Gm35339	MmuINT1C	chr15:7636	892	chr15:7636	67.04	VLOW,VLO	65.57	OK,OK,4.8=
Rbfox2	MmuINT01	chr15:7708	11784	chr15:7709	59.56	SOK,SOK,3	52.98	SOK,SOK,3
2410089E0	MmuINT1C	chr15:8219	1462	chr15:8218	23.5	SOK,SOK,1	17.69	SOK,SOK,1
Cyp2d22	MmuINT0C	chr15:8237	70	chr15:8237	31.43	VLOW,VLO	37.5	LOW,LOW,
Taf2	MmuINT01	chr15:5505	1982	chr15:5505	27.24	SOK,SOK,1	31.33	SOK,SOK,1
Lrrk2	MmuINT0C	chr15:9180	4064	chr15:9180	5.41	OK,OK,1.9=	12.47	OK,OK,1.2=
Mfsd3	MmuINT0C	chr15:7670	293	chr15:7670	4.76	OK,OK,1.2=	18.1	OK,OK,4.6=
Map3k12	MmuINT0C	chr15:1025	178	chr15:1025	23.72	SOK,SOK,7	20.3	SOK,SOK,7
Lsg1	MmuINT0C	chr16:3056	2201	chr16:3056	15.69	SOK,SOK,6.	11.42	SOK,SOK,5.
Lrch3	MmuINT0C	chr16:3299	809	chr16:3299	24.01	OK,OK,9.3=	17.44	OK,OK,11.8
Rogdi	MmuINT01	chr16:5011	548	chr16:5012	29.17	SOK,SOK,5	41.82	SOK,SOK,6
Lztr1	MmuINT0C	chr16:1751	977	chr16:1751	23.55	SOK,SOK,5	21.89	SOK,SOK,6
Heg1	MmuINT0C	chr16:3376	2596	chr16:3376	1.49	OK,OK,0.2=	0	OK,OK,0.2=
Coro7	MmuINT0C	chr16:4634	158	chr16:4634	28.04	SOK,SOK,3	30.21	SOK,SOK,5
Ece2	MmuINT0C	chr16:2063	4545	chr16:2063	40.08	SOK,SOK,4.	43.73	SOK,SOK,7.
Ece2	MmuINT0C	chr16:2064	173	chr16:2064	52.22	SOK,SOK,2	58.65	SOK,SOK,4

Nit2	MmuINT01	chr16:5715	1878	chr16:5715	4.65	OK,OK,3.0=	4.48	SOK,SOK,2.
Eef2kmt	MmuINT0C	chr16:5247	965	chr16:5248	0	OK,OK,0.5=	0	VLOW,VLO
Eef2kmt	MmuINT0C	chr16:5245	2067	chr16:5247	29.17	LOW,LOW,	23.81	LOW,LOW,
Phldb2	MmuINT01	chr16:4577	1363	chr16:4577	17.75	LOW,LOW,	22.57	OK,OK,4.9=
Son	MmuINT01	chr16:9167	3935	chr16:9167	43.7	SOK,SOK,1	49.05	SOK,SOK,1
Lppos	MmuINT1C	chr16:2439	374	chr16:2439	56.86	VLOW,VLO	61.11	VLOW,VLO
Slc15a2	MmuINT01	chr16:3675	1497	chr16:3675	18.04	OK,OK,3.9=	23	OK,OK,4.6=
1300002E1	MmuINT1C	chr16:218C	444	chr16:218C	60	VLOW,VLO	55.56	VLOW,VLO
Yeats2	MmuINT01	chr16:2017	4961	chr16:2017	17.24	OK,OK,289	20.31	OK,OK,285
Chrd	MmuINT0C	chr16:2073	85	chr16:2073	10	OK,OK,6.8=	10.48	OK,OK,9.7=
Atp13a5	MmuINT0C	chr16:2931	3711	chr16:2931	3.55	VLOW,VLO	3.81	VLOW,VLO
Atp13a5	MmuINT0C	chr16:2923	2593	chr16:2923	25.72	OK,OK,3.5=	30.7	OK,OK,7.7=
Rbm11	MmuINT01	chr16:7559	3470	chr16:7559	20.45	LOW,OK,1.	30.18	LOW,OK,1.
P2rx6	MmuINT01	chr16:1757	113	chr16:1757	61.7	LOW,LOW,	73.33	VLOW,VLO
Pi4ka	MmuINT01	chr16:1731	4434	chr16:1732	9.71	SOK,SOK,7.	7.78	SOK,SOK,9.
Clcn2	MmuINT0C	chr16:207C	334	chr16:207C	50.89	SOK,SOK,3	56.59	SOK,SOK,4
Kalrn	MmuINT0C	chr16:3422	6779	chr16:3422	43.15	SOK,SOK,0.	51.02	SOK,SOK,1.
Klhl6	MmuINT0C	chr16:1994	1151	chr16:1994	35	VLOW,VLO	35.48	VLOW,VLO
Ccdc74a	MmuINT0C	chr16:1764	668	chr16:1764	27.12	OK,OK,15.5	28.86	OK,OK,16.9
Ccdc74a	MmuINT0C	chr16:1764	769	chr16:1764	55.68	SOK,SOK,2	55.24	SOK,SOK,2
Scarf2	MmuINT01	chr16:178C	440	chr16:178C	23.64	OK,OK,3.2=	27.66	LOW,LOW,
Anks3	MmuINT0C	chr16:4946	1085	chr16:4947	24.29	SOK,SOK,1	32.19	SOK,SOK,1
C330027C0	MmuINT0C	chr16:490C	266	chr16:490C	1.81	OK,OK,0.2=	9.33	LOW,LOW,
Ccdc191	MmuINT0C	chr16:4394	675	chr16:4394	4.35	VLOW,VLO	4.76	VLOW,VLO
Tfrc	MmuINT01	chr16:3261	198	chr16:3261	34.89	SOK,SOK,3	42.86	SOK,SOK,5
Tfrc	MmuINT01	chr16:3261	1018	chr16:3261	42.79	SOK,SOK,4	47.18	SOK,SOK,6
Tbc1d23	MmuINT01	chr16:5717	4830	chr16:5718	22.73	LOW,LOW,	38.98	LOW,LOW,
Cfap44	MmuINT01	chr16:4446	8029	chr16:4446	39.02	VLOW,VLO	40.88	LOW,LOW,
Pmm2	MmuINT01	chr16:8642	2519	chr16:8642	36.41	SOK,SOK,1	40.35	SOK,SOK,1
Aifm3	MmuINT0C	chr16:175C	1156	chr16:175C	31.78	OK,OK,6.7=	34.81	OK,OK,15.1
Setd4	MmuINT01	chr16:9359	2876	chr16:9359	4	VLOW,VLO	11.2	LOW,OK,0.
Gart	MmuINT1C	chr16:9163	2803	chr16:9163	30.67	SOK,SOK,0.	33.16	SOK,SOK,0.
Olig2	MmuINT01	chr16:9122	691	chr16:9122	25.57	SOK,SOK,2	24.63	SOK,SOK,3
Sema5b	MmuINT01	chr16:3564	266	chr16:3564	11.76	OK,OK,6.5=	12.06	OK,OK,7.2=
Sema5b	MmuINT01	chr16:3566	358	chr16:3566	15.86	SOK,SOK,1	21.8	SOK,SOK,1
Ltn1	MmuINT0C	chr16:8741	2592	chr16:8741	31.13	SOK,SOK,4.	25.68	OK,OK,3.9=
Prodh	MmuINT01	chr16:1807	1026	chr16:1807	10	LOW,LOW,	4.17	OK,OK,1.4=
Vwa5b2	MmuINT01	chr16:2059	141	chr16:2059	63.35	SOK,SOK,3	54.57	SOK,SOK,4
Donson	MmuINT0C	chr16:9168	490	chr16:9168	55.95	SOK,SOK,2	59.84	SOK,SOK,1
Cryzl1	MmuINT0C	chr16:9169	960	chr16:9169	21.28	SOK,SOK,2	23.2	SOK,SOK,4
Cryzl1	MmuINT0C	chr16:9169	1477	chr16:9169	11.41	SOK,SOK,1	10.46	SOK,SOK,1
Trmt2a	MmuINT01	chr16:1825	154	chr16:1825	22.16	SOK,SOK,2	25.75	SOK,SOK,4
Poglut1	MmuINT01	chr16:3853	2882	chr16:3853	22.99	SOK,SOK,7.	27.18	SOK,SOK,6.
Nagpa	MmuINT01	chr16:5203	97	chr16:5203	60.87	VLOW,VLO	60	LOW,LOW,
Nagpa	MmuINT01	chr16:5199	198	chr16:5199	13.04	OK,OK,2.1=	22.35	OK,OK,5.2=

Nagpa	MmuINT01	chr16:5198	107	chr16:5198	9.52	LOW,LOW,	11.11	OK,OK,4.2=
Golgb1	MmuINT0C	chr16:3689	3338	chr16:3689	84.45	OK,OK,12.3	82.9	OK,OK,13.4
5-Sep	MmuINT01	chr16:1862	4209	chr16:1862	27.83	SOK,SOK,85	29.8	SOK,SOK,94
Tbp	MmuINT01	chr17:1551	1218	chr17:1551	33.33	SOK,SOK,20	25.54	SOK,SOK,19
Six3os1	MmuINT1C	chr17:8561	901	chr17:8561	55.1	LOW,LOW,	71.43	VLOW,VLO
Skiv2l	MmuINT01	chr17:3484	348	chr17:3484	27.67	SOK,SOK,21	30.17	SOK,SOK,40
Gtf2h4	MmuINT0C	chr17:3567	180	chr17:3567	7.69	OK,OK,2.9=	14.29	OK,OK,5.1=
Telo2	MmuINT01	chr17:2511	1795	chr17:2511	14.88	SOK,SOK,4.	15.13	SOK,SOK,9.
2810468N0	MmuINT1C	chr17:2557	2884	chr17:2557	17.11	OK,OK,7.0=	11.02	SOK,SOK,4.
Pigq	MmuINT01	chr17:2593	100	chr17:2593	18.92	SOK,SOK,61	27.89	SOK,SOK,93
C4b	MmuINT0C	chr17:3473	653	chr17:3473	0	OK,OK,0.0=	0	OK,OK,1.4=
Ubr2	MmuINT01	chr17:4698	935	chr17:4698	36.14	OK,OK,10.7	40.81	SOK,SOK,11
Ubr2	MmuINT01	chr17:4697	4229	chr17:4698	24.01	OK,OK,8.6=	20.96	SOK,SOK,8.
Zfp598	MmuINT01	chr17:2467	543	chr17:2467	52.09	SOK,SOK,35	54.56	SOK,SOK,50
Eif2ak2	MmuINT0C	chr17:7886	1282	chr17:7886	3.7	OK,OK,0.9=	0	OK,OK,0.7=
Srsf7	MmuINT01	chr17:8020	874	chr17:8020	35.38	SOK,SOK,11	41.1	SOK,SOK,11
Eci1	MmuINT0C	chr17:2442	110	chr17:2442	35.14	VLOW,VLO	46.15	VLOW,VLO
Lemd2	MmuINT0C	chr17:2719	2198	chr17:2720	23.24	SOK,SOK,18	18.14	SOK,SOK,24
Lemd2	MmuINT0C	chr17:2719	731	chr17:2719	27.27	SOK,SOK,11	26.38	SOK,SOK,20
Gtpbp2	MmuINT0C	chr17:4616	148	chr17:4616	21.34	SOK,SOK,44	32.21	SOK,SOK,64
Zfp101	MmuINT01	chr17:3338	3835	chr17:3338	28	LOW,LOW,	24	LOW,LOW,
Gpsm3	MmuINT0C	chr17:3459	178	chr17:3459	23.81	LOW,LOW,	19.3	OK,OK,3.0=
Wdr90	MmuINT01	chr17:2586	101	chr17:2586	56.04	OK,OK,28.3	61.22	OK,OK,37.7
Wdr90	MmuINT01	chr17:2585	93	chr17:2586	13.04	OK,OK,6.4=	19.54	OK,OK,11.9
Capn15	MmuINT01	chr17:2596	571	chr17:2596	32.97	SOK,SOK,22	26.51	SOK,SOK,32
Abcc10	MmuINT0C	chr17:4632	474	chr17:4632	13.23	LOW,LOW,	8.86	OK,OK,1.6=
Thoc6	MmuINT01	chr17:2367	81	chr17:2367	10.35	OK,OK,7.7=	11.75	OK,OK,4.4=
Cyp4f13	MmuINT0C	chr17:3292	318	chr17:3292	25.42	OK,OK,1.6=	19.3	OK,OK,2.1=
Slc25a27	MmuINT01	chr17:4366	2634	chr17:4366	51.82	SOK,SOK,31	61.15	SOK,SOK,35
Slc25a27	MmuINT1C	chr17:4364	3344	chr17:4364	65.29	SOK,SOK,92	62.61	SOK,SOK,99
Rgs11	MmuINT01	chr17:2620	88	chr17:2620	80.47	SOK,SOK,21	83.93	SOK,SOK,41
Mdc1	MmuINT0C	chr17:3585	107	chr17:3585	22.67	OK,OK,22.3	24.29	OK,OK,25.9
Cul9	MmuINT0C	chr17:4650	4092	chr17:4650	21.15	SOK,SOK,12	21.74	SOK,SOK,22
Chtf18	MmuINT0C	chr17:2572	236	chr17:2572	12.9	LOW,LOW,	14.25	VLOW,VLO
Rab26	MmuINT01	chr17:2453	199	chr17:2453	23.81	LOW,LOW,	26.98	OK,OK,6.5=
Rab26	MmuINT01	chr17:2452	84	chr17:2453	30.61	LOW,LOW,	13.16	OK,OK,7.0=
Tgif1	MmuINT1C	chr17:7084	4473	chr17:7085	0	LOW,LOW,	4	VLOW,VLO
Zfp229	MmuINT01	chr17:2174	1089	chr17:2174	3.45	OK,OK,2.5=	8.56	LOW,LOW,
Shd	MmuINT01	chr17:5597	1067	chr17:5597	55.2	SOK,SOK,50	48.58	SOK,SOK,50
4930539E0	MmuINT0C	chr17:2889	559	chr17:2889	1.78	OK,OK,2.3=	6.98	OK,OK,1.4=
Rhbdl1	MmuINT01	chr17:2583	80	chr17:2583	46.78	SOK,SOK,44	53.34	SOK,SOK,63
Trim26	MmuINT01	chr17:3683	232	chr17:3683	26.79	OK,OK,0.7=	38.13	OK,OK,0.2=
Msln	MmuINT01	chr17:2574	77	chr17:2575	9.34	OK,OK,3.8=	8.33	VLOW,VLO
Unkl	MmuINT01	chr17:2521	5471	chr17:2521	4.95	OK,OK,5.8=	11.11	OK,OK,7.9=
A930015D0	MmuINT0C	chr17:3599	42872	chr17:3599	20.69	OK,OK,0.5=	8.86	OK,OK,0.0=

Eme2	MmuINT0C	chr17:2489	488	chr17:2489	33.24	SOK,SOK,1	31.83	OK,OK,14.1
Tmem63b	MmuINT01	chr17:4566	938	chr17:4566	38.33	SOK,SOK,1	45.04	SOK,SOK,2
Tjap1	MmuINT01	chr17:4626	933	chr17:4626	69.15	OK,OK,15.8	66.71	LOW,LOW,
Lonp1	MmuINT0C	chr17:5661	593	chr17:5661	18.58	SOK,SOK,1	19.01	SOK,SOK,3
Fgd2	MmuINT0C	chr17:2937	1849	chr17:2937	15.91	OK,OK,4.6=	17.65	OK,OK,4.2=
Crip3	MmuINT0C	chr17:4643	135	chr17:4643	56.32	LOW,LOW,	54.78	LOW,LOW,
Cramp1l	MmuINT0C	chr17:2497	2545	chr17:2497	14.2	OK,OK,4.9=	10.29	OK,OK,3.2=
Slc29a1	MmuINT1C	chr17:4558	615	chr17:4558	13.22	SOK,SOK,1	17.82	SOK,SOK,2
Dact2	MmuINT0C	chr17:1419	4235	chr17:1420	0	OK,OK,0.0=	2.22	OK,OK,1.2=
Pi16	MmuINT01	chr17:2932	537	chr17:2932	25	OK,OK,1.4=	31.03	OK,OK,4.2=
Fndc1	MmuINT1C	chr17:7775	3080	chr17:7778	0	LOW,LOW,	0	OK,OK,0.3=
Tmem8	MmuINT01	chr17:2611	242	chr17:2611	44.8	OK,OK,9.0=	45.62	OK,OK,7.9=
Rab11fip3	MmuINT01	chr17:2600	4210	chr17:2600	21.28	SOK,SOK,3	24.89	SOK,SOK,3
Zfp523	MmuINT01	chr17:2820	674	chr17:2820	39.38	SOK,SOK,8	44.78	SOK,SOK,8
Tfeb	MmuINT01	chr17:4778	676	chr17:4778	0	OK,OK,0.2=	6.06	OK,OK,0.7=
Camkmt	MmuINT0C	chr17:8539	1089	chr17:8539	17.65	OK,OK,2.1=	12.12	OK,OK,4.2=
Tap2	MmuINT01	chr17:3421	162	chr17:3421	8	OK,OK,1.2=	9.86	OK,OK,1.6=
Ift140	MmuINT0C	chr17:2508	1099	chr17:2508	13.5	SOK,SOK,1	22.83	SOK,SOK,1
Vars2	MmuINT01	chr17:3565	813	chr17:3565	11.95	OK,OK,8.3=	11.31	SOK,SOK,1
Lmf1	MmuINT1C	chr17:2558	23609	chr17:2558	18.01	OK,OK,0.0=	11.33	VLOW,OK,
Mocs1	MmuINT0C	chr17:4943	9513	chr17:4943	13.04	OK,OK,1.4=	20.75	OK,OK,2.1=
Zfp995	MmuINT1C	chr17:2188	863	chr17:2188	19.46	LOW,OK,1.	31.09	VLOW,VLO
Baiap3	MmuINT0C	chr17:2525	445	chr17:2525	32.18	OK,OK,10.7	40.01	SOK,SOK,2
Baiap3	MmuINT0C	chr17:2524	102	chr17:2524	21.1	OK,OK,18.5	22.54	SOK,SOK,2
Baiap3	MmuINT0C	chr17:2524	115	chr17:2524	30.34	OK,OK,17.0	26.77	SOK,SOK,2
Aif1	MmuINT0C	chr17:3517	451	chr17:3517	52	OK,OK,9.5=	42.47	OK,OK,8.8=
Kat2b	MmuINT1C	chr17:5366	210	chr17:5366	26.42	OK,OK,7.4=	36.26	LOW,LOW,
1600002H0	MmuINT0C	chr17:2421	889	chr17:2421	6.28	OK,OK,2.3=	5.21	OK,OK,2.1=
Trem2	MmuINT01	chr17:4834	1861	chr17:4834	2.91	OK,OK,2.5=	0	OK,OK,3.9=
Scube3	MmuINT01	chr17:2816	344	chr17:2816	18.85	OK,OK,5.1=	26.08	OK,OK,7.0=
Slc37a1	MmuINT01	chr17:3132	2445	chr17:3132	42.24	VLOW,VLO	36.23	LOW,LOW,
Map3k2	MmuINT0C	chr18:3221	2013	chr18:3221	17.5	OK,OK,3.7=	25	OK,OK,3.9=
Ttc39c	MmuINT01	chr18:1273	1831	chr18:1273	10.29	OK,OK,4.9=	16.1	SOK,SOK,9.
Tmx3	MmuINT01	chr18:9053	1294	chr18:9053	22.07	SOK,SOK,7.	27.66	SOK,SOK,1
Bin1	MmuINT0C	chr18:3242	2843	chr18:3242	29.39	SOK,SOK,1	32.62	SOK,SOK,1
Dmxl1	MmuINT0C	chr18:4984	2004	chr18:4984	3.41	LOW,LOW,	14.73	LOW,LOW,
Ccbe1	MmuINT0C	chr18:6606	4332	chr18:6607	11.9	OK,OK,2.3=	31.43	OK,OK,4.4=
Megf10	MmuINT0C	chr18:5727	3899	chr18:5727	3.57	OK,OK,0.2=	12.2	LOW,LOW,
Tmco6	MmuINT01	chr18:3673	161	chr18:3673	13.58	OK,OK,2.5=	19.05	OK,OK,5.3=
Tmco6	MmuINT01	chr18:3673	208	chr18:3673	4.79	OK,OK,1.2=	5.81	OK,OK,2.1=
Atp9b	MmuINT0C	chr18:8076	641	chr18:8076	28.08	SOK,SOK,3	25.05	SOK,SOK,4
Atp9b	MmuINT0C	chr18:8073	2503	chr18:8073	20	OK,OK,6.0=	20	OK,OK,10.7
Fbxo38	MmuINT0C	chr18:6252	1524	chr18:6252	8.14	OK,OK,2.3=	7.45	OK,OK,4.9=
Cep192	MmuINT0C	chr18:6785	172	chr18:6785	4.9	OK,OK,0.8=	7.69	OK,OK,1.4=
Cxxc5	MmuINT1C	chr18:3582	28406	chr18:3582	34.26	SOK,SOK,1.	37.63	SOK,SOK,0.

Cep76	MmuINT0C	chr18:6761	3383	chr18:6762	11.56	OK,OK,0.0=	3.35	OK,OK,0.7=
Slc12a2	MmuINT01	chr18:5793	1309	chr18:5793	19.84	SOK,SOK,1	23.29	SOK,SOK,1
Ankhd1	MmuINT0C	chr18:3665	261	chr18:3665	33.5	SOK,SOK,1	26.32	SOK,SOK,2
Mpp7	MmuINT1C	chr18:7356	23753	chr18:7379	12	VLOW,VLO	11.11	VLOW,VLO
1700086O	MmuINT0C	chr18:3823	10988	chr18:3825	18.92	OK,OK,2.8=	18.92	OK,OK,2.1=
Dctn4	MmuINT0C	chr18:6054	1601	chr18:6054	43.86	LOW,LOW,	49.02	VLOW,VLO
Dnd1	MmuINT0C	chr18:3676	608	chr18:3676	7.69	VLOW,VLO	2.22	OK,OK,1.2=
Map3k11	MmuINT0C	chr19:5697	2940	chr19:5697	10.57	OK,OK,6.7=	15.6	OK,OK,7.7=
Tex40	MmuINT0C	chr19:6923	1194	chr19:6924	16.33	OK,OK,4.4=	21.63	LOW,LOW,
Slc18a2	MmuINT01	chr19:5927	690	chr19:5927	24.88	OK,OK,5.1=	30.72	OK,OK,7.9=
Sufu	MmuINT01	chr19:4645	2198	chr19:4645	6.33	OK,OK,0.9=	12.12	OK,OK,0.5=
Ltbp3	MmuINT0C	chr19:5745	148	chr19:5745	22.52	OK,OK,8.5=	25.68	OK,OK,9.6=
Ltbp3	MmuINT0C	chr19:5754	1497	chr19:5753	19.62	OK,SOK,13	23.98	SOK,SOK,1
Cutc	MmuINT0C	chr19:4375	2399	chr19:4375	0	OK,OK,0.5=	0	LOW,LOW,
Eml3	MmuINT0C	chr19:8929	846	chr19:8929	12.61	OK,OK,5.3=	13.31	OK,OK,1.9=
Eml3	MmuINT0C	chr19:8939	1074	chr19:8939	13.24	OK,OK,8.6=	6.76	OK,OK,15.6
Eno4	MmuINT0C	chr19:5896	1470	chr19:5896	9.22	OK,OK,0.9=	16.46	VLOW,VLO
Hps1	MmuINT0C	chr19:4276	2068	chr19:4276	3.33	OK,OK,3.2=	4.23	OK,OK,3.0=
Hps1	MmuINT0C	chr19:4275	1452	chr19:4275	80.47	OK,OK,15.3	75.25	OK,OK,30.4
Poll	MmuINT01	chr19:4555	338	chr19:4555	31.76	OK,OK,5.1=	33.33	OK,OK,6.3=
Tkfc	MmuINT0C	chr19:1059	357	chr19:1059	12	OK,OK,6.3=	17.82	SOK,SOK,8.
Gm960	MmuINT1C	chr19:4660	3242	chr19:4663	55.79	VLOW,VLO	47.43	LOW,LOW,
Gm960	MmuINT1C	chr19:4649	194	chr19:4649	81.61	OK,OK,16.4	75.9	OK,OK,14.7
Ppp1r32	MmuINT0C	chr19:1048	265	chr19:1048	8	OK,OK,0.9=	2.86	LOW,LOW,
Cwf19l1	MmuINT0C	chr19:4412	1523	chr19:4412	7.2	OK,OK,2.5=	10.56	OK,OK,2.1=
Mark2	MmuINT1C	chr19:7278	1899	chr19:7279	13.87	SOK,SOK,1	13.13	SOK,SOK,2
Zfyve27	MmuINT01	chr19:4218	1430	chr19:4218	36.14	SOK,SOK,9	39.87	SOK,SOK,1
Tctn3	MmuINT01	chr19:4060	243	chr19:4060	37.23	OK,OK,13.0	39.35	SOK,SOK,1
Ighmbp2	MmuINT0C	chr19:3273	1320	chr19:3274	28.54	OK,OK,5.6=	23.81	OK,OK,6.3=
Emx2os	MmuINT0C	chr19:5942	738	chr19:5943	10.34	VLOW,VLO	9.09	LOW,LOW,
Ganab	MmuINT0C	chr19:8907	761	chr19:8907	24.45	SOK,SOK,2	24.74	SOK,SOK,4
Mus81	MmuINT1C	chr19:5483	76	chr19:5483	17.96	SOK,SOK,3	23.64	SOK,SOK,8
Naa40	MmuINT01	chr19:7229	142	chr19:7229	40.72	SOK,SOK,6	44.29	SOK,SOK,6
Sorcs1	MmuINT01	chr19:5015	1702	chr19:5015	21.43	OK,OK,4.9=	18.64	OK,OK,5.6=
Entpd7	MmuINT0C	chr19:4372	1304	chr19:4372	6.49	OK,OK,1.6=	3.23	OK,OK,2.5=
Plcb3	MmuINT01	chr19:6954	237	chr19:6954	10	OK,OK,5.6=	8.88	OK,OK,4.2=
Trpt1	MmuINT01	chr19:6996	1155	chr19:6996	16.3	SOK,SOK,1	11.31	SOK,SOK,1
Actn3	MmuINT0C	chr19:4864	537	chr19:4865	0	LOW,LOW,	0	VLOW,VLO
Ric1	MmuINT0C	chr19:2958	253	chr19:2958	42.9	SOK,SOK,2	34.15	OK,OK,12.8
Pitpnm1	MmuINT01	chr19:4106	823	chr19:4106	33.95	SOK,SOK,7	35.71	SOK,SOK,9
Cep78	MmuINT0C	chr19:1597	420	chr19:1597	16.89	OK,OK,26.2	23.72	OK,OK,27.8
Myrf	MmuINT0C	chr19:1021	449	chr19:1021	0	OK,OK,7.0=	0	VLOW,VLO
Zbtb3	MmuINT1C	chr19:8802	288	chr19:8802	7.32	LOW,LOW,	6.38	OK,OK,0.7=
Pip5k1b	MmuINT01	chr19:2429	8477	chr19:2430	0	VLOW,VLO	1.69	OK,OK,5.4=
Mms19	MmuINT0C	chr19:4194	1101	chr19:4194	39.25	SOK,SOK,2	40.3	SOK,SOK,3

Rasgrp2	MmuINT1C	chr19:6413	400	chr19:6413	23.25	SOK,SOK,4	25.83	SOK,SOK,6
Rad9a	MmuINT01	chr19:4197	2491	chr19:420C	6.17	OK,OK,3.5=	10.26	OK,OK,5.3=
Pygm	MmuINT01	chr19:6391	1198	chr19:6391	7.41	OK,OK,11.7	5.26	OK,OK,11.2
Slc22a8	MmuINT01	chr19:8608	854	chr19:8608	23.58	SOK,SOK,1	19.42	SOK,SOK,1
Cdc42bpg	MmuINT0C	chr19:6311	99	chr19:6311	2.13	OK,OK,0.7=	10.64	OK,OK,3.5=
Cdc42bpg	MmuINT0C	chr19:6315	246	chr19:6315	0	VLOW,VLO	0	LOW,LOW,
Cdc42bpg	MmuINT0C	chr19:6316	250	chr19:6316	13.27	VLOW,VLO	5.14	LOW,LOW,
Cdc42bpg	MmuINT0C	chr19:6317	672	chr19:6317	12.71	VLOW,VLO	15.97	LOW,LOW,
Dclre1a	MmuINT0C	chr19:5653	1014	chr19:5653	0	OK,OK,0.0=	1.59	OK,OK,1.4=
Ccdc148	MmuINT0C	chr2:59018	141741	chr2:5916C	20.89	OK,OK,0.0=	23.32	OK,OK,0.0=
Nostrin	MmuINT01	chr2:69182	928	chr2:69182	3.16	VLOW,LOW	2.78	LOW,LOW,
Zmynd8	MmuINT01	chr2:16587	509	chr2:16587	25	LOW,LOW,	11.54	OK,OK,1.6=
Nelfcd	MmuINT01	chr2:17442	373	chr2:17442	13.82	SOK,SOK,1	17.21	SOK,SOK,1
Wdsub1	MmuINT01	chr2:59861	882	chr2:59862	12.5	VLOW,VLO	9.09	VLOW,VLO
Cables2	MmuINT0C	chr2:18026	435	chr2:18026	25.8	SOK,SOK,2	25.18	SOK,SOK,3
Zfp335	MmuINT01	chr2:1649C	898	chr2:1649C	7.04	OK,OK,3.2=	7.09	OK,OK,5.8=
Zfp335	MmuINT01	chr2:1649C	90	chr2:1649C	21.62	OK,OK,23.1	19.09	SOK,SOK,3
Dhx35	MmuINT0C	chr2:15883	1646	chr2:15883	41.71	OK,OK,14.8	40.16	SOK,SOK,1
Hck	MmuINT0C	chr2:15313	6080	chr2:15313	31.37	LOW,LOW,	22.85	OK,OK,0.0=
Uckl1	MmuINT01	chr2:18156	105	chr2:18156	32.36	SOK,SOK,3	36.82	SOK,SOK,5
Polr1b	MmuINT01	chr2:12911	2155	chr2:12911	17.09	SOK,SOK,6.	18.26	SOK,SOK,7.
Abca2	MmuINT0C	chr2:25434	362	chr2:25434	20.35	SOK,SOK,1	17.06	SOK,SOK,1
Elmo2	MmuINT0C	chr2:1653C	2908	chr2:1653C	15.45	SOK,SOK,1	13.26	SOK,SOK,1
Ccdc173	MmuINT0C	chr2:69758	3256	chr2:69761	9.09	OK,OK,0.2=	5.41	OK,OK,0.9=
Ninl	MmuINT01	chr2:15094	3750	chr2:15094	21.05	LOW,LOW,	21.68	LOW,LOW,
Kyat1	MmuINT0C	chr2:30186	277	chr2:30187	19.3	OK,OK,5.1=	15.58	OK,OK,6.0=
Fpgs	MmuINT0C	chr2:32687	190	chr2:32687	33.39	OK,OK,13.2	37.96	SOK,SOK,2
Ncaph	MmuINT01	chr2:12711	2861	chr2:12711	7.46	OK,OK,0.9=	8.57	OK,OK,2.8=
Cdk9	MmuINT0C	chr2:3271C	1463	chr2:32712	26.91	SOK,SOK,1	18.88	SOK,SOK,2
Arfgef2	MmuINT0C	chr2:16689	993	chr2:16689	9.26	SOK,SOK,9.	8.51	SOK,SOK,1
Oip5	MmuINT01	chr2:11961	237	chr2:11961	3.23	LOW,LOW,	0	OK,OK,0.0=
Sema6d	MmuINT01	chr2:12466	3676	chr2:12466	24.16	SOK,SOK,4	28.7	SOK,SOK,4
Cdk5rap1	MmuINT0C	chr2:15436	5194	chr2:15436	33.92	OK,OK,1.6=	40.21	LOW,LOW,
Cdk5rap1	MmuINT1C	chr2:15435	6346	chr2:15436	22.58	OK,OK,NA=	29.03	OK,OK,NA=
Ndor1	MmuINT01	chr2:25248	67	chr2:25248	44.7	SOK,SOK,8	44.44	SOK,SOK,1
Alkbh3	MmuINT0C	chr2:94003	1576	chr2:94004	18	OK,OK,2.1=	19.21	OK,OK,1.9=
Miga2	MmuINT0C	chr2:30382	892	chr2:30381	20.66	SOK,SOK,1	16.17	SOK,SOK,1
Mavs	MmuINT0C	chr2:13123	1404	chr2:13123	12.68	OK,OK,0.7=	10.64	OK,OK,0.9=
Kcnt1	MmuINT0C	chr2:25909	287	chr2:25909	49.9	SOK,SOK,7	48.55	SOK,SOK,7
Ttc21b	MmuINT01	chr2:66247	1964	chr2:66249	6.25	LOW,LOW,	4	OK,OK,1.4=
Ttc21b	MmuINT01	chr2:66217	5362	chr2:66222	16.42	OK,OK,1.4=	17.86	OK,OK,2.5=
Snapc4	MmuINT01	chr2:26375	465	chr2:26376	43.21	SOK,SOK,1	41.45	SOK,SOK,2
Golga1	MmuINT0C	chr2:39047	462	chr2:39047	19.75	OK,OK,6.7=	17.58	OK,OK,8.1=
Spg11	MmuINT01	chr2:12207	1498	chr2:12207	6.63	OK,OK,2.1=	7.51	OK,OK,3.0=
Spg11	MmuINT01	chr2:12206	888	chr2:12207	23.83	OK,OK,10.0	25.86	OK,OK,10.6

Rpap1	MmuINT01	chr2:11977	237	chr2:11977	3.35	OK,OK,2.1=	8.67	OK,OK,3.7=
Rbms1	MmuINT01	chr2:60758	3198	chr2:60762	27.56	SOK,SOK,1	22.27	OK,OK,10.9
Crat	MmuINT0C	chr2:30413	2065	chr2:30415	18.6	SOK,SOK,6.	20.2	SOK,SOK,7.
Crat	MmuINT0C	chr2:30405	863	chr2:30406	22.49	SOK,SOK,1	31.03	SOK,SOK,1
Tsc1	MmuINT01	chr2:28678	746	chr2:28678	21.67	OK,OK,9.9=	19.21	OK,OK,10.4
Slc43a3	MmuINT01	chr2:84956	1299	chr2:84956	11.76	LOW,LOW,	4	OK,OK,6.2=
L3mbtl1	MmuINT0C	chr2:16296	325	chr2:16296	42.19	SOK,SOK,2	46.38	SOK,SOK,3
L3mbtl1	MmuINT0C	chr2:16296	166	chr2:16296	37.76	SOK,SOK,2	49.84	SOK,SOK,4
Lrsam1	MmuINT1C	chr2:32961	306	chr2:32961	7.14	OK,OK,3.5=	8	OK,OK,3.9=
Arfgap1	MmuINT0C	chr2:18097	665	chr2:18097	19.83	SOK,SOK,2	16.46	SOK,SOK,2
Spout1	MmuINT0C	chr2:30177	424	chr2:30178	30.23	OK,OK,16.9	24.83	OK,OK,22.9
Sppl2a	MmuINT0C	chr2:12691	3622	chr2:12691	16.76	SOK,SOK,1	17.57	OK,OK,11.4
Dpp7	MmuINT0C	chr2:25353	91	chr2:25353	53.83	SOK,SOK,7	48.98	SOK,SOK,6
Catsper2	MmuINT0C	chr2:1214C	253	chr2:1214C	34.58	LOW,LOW,	33.29	LOW,LOW,
Catsper2	MmuINT0C	chr2:12139	1557	chr2:12139	20.13	OK,OK,2.3=	23.09	OK,OK,2.1=
Brd3	MmuINT0C	chr2:27464	10948	chr2:27475	56.36	LOW,LOW,	61.7	LOW,LOW,
Cep250	MmuINT0C	chr2:15596	1993	chr2:15596	26.05	OK,OK,7.9=	25.61	OK,OK,5.8=
Cep250	MmuINT0C	chr2:15598	1066	chr2:15598	55.1	SOK,SOK,2	48.01	SOK,SOK,1
4930447M	MmuINT1C	chr2:19345	2445	chr2:19344	70.37	OK,OK,1.2=	65.85	VLOW,VLO
Tubgcp4	MmuINT01	chr2:12118	3305	chr2:12118	22.5	OK,OK,12.1	26.83	OK,OK,9.7=
Tubgcp4	MmuINT01	chr2:12118	354	chr2:12118	41.86	OK,OK,8.8=	31.87	OK,OK,5.8=
Samd10	MmuINT01	chr2:18159	1322	chr2:18159	14.04	SOK,SOK,7.	13.98	SOK,SOK,7.
Zer1	MmuINT01	chr2:30105	2472	chr2:30107	26.95	SOK,SOK,2	27.44	SOK,SOK,4
Pip5kl1	MmuINT01	chr2:32577	183	chr2:32577	20.83	LOW,LOW,	30.43	OK,OK,6.8=
Asb6	MmuINT0C	chr2:30824	724	chr2:30825	20.23	SOK,SOK,2	27.42	SOK,SOK,1
Lamc3	MmuINT0C	chr2:31938	1421	chr2:31937	7.85	OK,OK,16.4	7.79	OK,OK,15.1
Shc4	MmuINT01	chr2:12564	3155	chr2:12565	2.95	LOW,LOW,	1.37	OK,OK,0.2=
Samhd1	MmuINT01	chr2:15711	2160	chr2:15711	25.71	OK,OK,6.0=	18.58	OK,OK,6.0=
Samhd1	MmuINT01	chr2:1571C	1015	chr2:15711	10.27	SOK,SOK,7.	14.93	OK,OK,10.7
Fubp3	MmuINT0C	chr2:31611	745	chr2:31611	39.36	SOK,SOK,2	29.12	SOK,SOK,3
Ttll11	MmuINT01	chr2:35944	34212	chr2:35979	78.06	LOW,LOW,	71.43	SOK,SOK,0.
BC029214	MmuINT0C	chr2:2546C	160	chr2:2546C	18.26	SOK,SOK,3	22.9	SOK,SOK,4
Plcg1	MmuINT01	chr2:16075	162	chr2:16075	17.03	SOK,SOK,2	14.75	SOK,SOK,2
Cep152	MmuINT0C	chr2:12556	2134	chr2:12556	25	VLOW,VLO	36.84	VLOW,VLO
Jag1	MmuINT0C	chr2:13708	1045	chr2:13708	18.64	OK,OK,1.6=	16.67	OK,OK,3.2=
Scn3a	MmuINT01	chr2:65525	710	chr2:65526	23.71	OK,SOK,11	26.91	SOK,SOK,1
Scn3a	MmuINT01	chr2:65524	818	chr2:65525	30.08	SOK,SOK,9.	25.62	SOK,SOK,1
Scn3a	MmuINT1C	chr2:65507	1182	chr2:65508	31.06	SOK,SOK,2.	29.38	SOK,SOK,3.
Accs	MmuINT0C	chr2:93845	2110	chr2:93847	35.71	LOW,LOW,	34.62	LOW,LOW,
Accs	MmuINT0C	chr2:93842	303	chr2:93842	12.2	LOW,LOW,	7.32	LOW,LOW,
Shf	MmuINT01	chr2:12235	2885	chr2:12235	21.57	OK,OK,63.0	21.05	OK,OK,71.2
Bbs5	MmuINT0C	chr2:69652	1215	chr2:69652	41.59	OK,OK,15.3	44.54	OK,OK,24.1
Spag4	MmuINT01	chr2:15606	318	chr2:15606	32	LOW,LOW,	36.51	OK,OK,7.2=
Mtg2	MmuINT0C	chr2:18008	603	chr2:18008	18.02	SOK,SOK,1	18.31	SOK,SOK,1
Ciz1	MmuINT0C	chr2:32374	1018	chr2:32374	41.79	SOK,SOK,4	40.05	SOK,SOK,4

Cir1	MmuINT1C	chr2:73306	86	chr2:73306	6.19	VLOW,SOK	1.73	VLOW,SOK
Mettl8	MmuINT0C	chr2:70976	4239	chr2:70980	31.25	OK,OK,4.9=	45.68	OK,OK,4.6=
Snx21	MmuINT01	chr2:16478	4857	chr2:16478	30.23	OK,OK,7.0=	50	OK,OK,7.2=
Ctsa	MmuINT1C	chr2:16483	527	chr2:16483	29.37	SOK,SOK,19	33.88	SOK,SOK,13
Ssfa2	MmuINT01	chr2:79658	1883	chr2:79657	17.74	OK,OK,8.6=	24.28	OK,OK,8.1=
Ttf1	MmuINT01	chr2:29083	1018	chr2:29083	20.04	OK,OK,24.5	21.7	OK,OK,10.5
Zfp335os	MmuINT1C	chr2:16491	7473	chr2:16491	29.67	OK,OK,9.5=	20.39	OK,OK,7.6=
Gss	MmuINT0C	chr2:15557	283	chr2:15557	8.24	OK,OK,1.4=	5.26	OK,OK,0.5=
Gss	MmuINT0C	chr2:15557	4346	chr2:15557	16.45	OK,OK,0.9=	18.27	OK,OK,3.5=
Ebf4	MmuINT0C	chr2:13036	95	chr2:13036	34.65	OK,OK,38.0	36.77	SOK,SOK,53
Fam217b	MmuINT0C	chr2:17841	1923	chr2:17841	24.28	OK,OK,0.0=	21.89	OK,OK,0.9=
BB218582	MmuINT1C	chr2:10664	412	chr2:10664	12.5	VLOW,VLO	16.67	VLOW,VLO
Pla2g4b	MmuINT01	chr2:12003	622	chr2:12003	29.73	VLOW,VLO	33.33	LOW,LOW,
Nat10	MmuINT01	chr2:10372	357	chr2:10372	27.34	SOK,SOK,18	21.54	SOK,SOK,21
Gpr155	MmuINT0C	chr2:73364	3228	chr2:73367	18.45	OK,OK,4.2=	21.52	OK,OK,6.0=
Phyhd1	MmuINT01	chr2:30277	2310	chr2:30277	65.48	SOK,SOK,24	73.11	OK,SOK,24
Garnl3	MmuINT0C	chr2:33007	4052	chr2:33011	16.45	SOK,SOK,30	21.58	SOK,SOK,27
Hspa12b	MmuINT0C	chr2:13113	365	chr2:13113	3.45	OK,OK,0.5=	10.17	OK,OK,3.0=
Hspa12b	MmuINT0C	chr2:13113	319	chr2:13113	15.79	OK,OK,2.8=	12.24	OK,OK,4.6=
Hspa12b	MmuINT0C	chr2:13113	1377	chr2:13113	7.69	OK,OK,4.4=	10.92	OK,OK,2.5=
Ralgapa2	MmuINT01	chr2:14624	3133	chr2:14624	14.34	SOK,SOK,5.	14.37	OK,OK,10.7
Taf4	MmuINT01	chr2:17992	2555	chr2:17993	42.37	OK,OK,9.5=	46.37	OK,OK,7.9=
Blvra	MmuINT1C	chr2:12707	9799	chr2:12707	0	LOW,LOW,	0	LOW,LOW,
Fkbp7	MmuINT0C	chr2:76665	5886	chr2:76671	15	OK,OK,1.2=	17.07	LOW,LOW,
Nphp1	MmuINT01	chr2:12775	1814	chr2:12775	16.82	OK,OK,7.8=	13.88	OK,OK,6.4=
Armc3	MmuINT0C	chr2:19300	3126	chr2:19300	0	VLOW,VLO	0	OK,OK,0.9=
Fastkd1	MmuINT0C	chr2:69693	533	chr2:69694	6.57	OK,OK,3.7=	11.76	OK,OK,5.1=
Golga2	MmuINT0C	chr2:32297	176	chr2:32297	19.18	SOK,SOK,21	20.52	SOK,SOK,19
Cobll1	MmuINT0C	chr2:65126	7273	chr2:65133	24.14	VLOW,VLO	19.23	OK,OK,0.0=
Cobll1	MmuINT1C	chr2:65105	1183	chr2:65107	11.11	OK,OK,1.9=	21.57	OK,OK,3.0=
Cobll1	MmuINT0C	chr2:65103	2320	chr2:65105	17.65	OK,OK,0.9=	12.73	OK,OK,3.2=
Ptrh1	MmuINT01	chr2:32776	176	chr2:32776	12	OK,OK,2.2=	13.33	OK,OK,2.8=
Cntrl	MmuINT0C	chr2:35175	165	chr2:35175	34.44	OK,OK,11.5	25.49	OK,OK,15.1
Cntrl	MmuINT0C	chr2:35175	527	chr2:35175	41.65	SOK,SOK,19	51.38	SOK,SOK,19
Chd6	MmuINT0C	chr2:16102	607	chr2:16102	10.14	OK,OK,4.2=	13.79	OK,OK,1.9=
Mtmr11	MmuINT01	chr3:96163	254	chr3:96163	33.33	VLOW,VLO	51.72	LOW,LOW,
Mtmr11	MmuINT01	chr3:96163	437	chr3:96163	22.59	OK,OK,2.1=	35.48	VLOW,VLO
Mtmr11	MmuINT01	chr3:96168	455	chr3:96168	13.93	OK,OK,1.6=	22.53	OK,OK,2.8=
Trmt13	MmuINT0C	chr3:11658	426	chr3:11659	65.22	OK,OK,14.1	63.22	OK,OK,21.8
Acp6	MmuINT0C	chr3:97166	335	chr3:97166	24.32	OK,OK,4.2=	27.62	OK,OK,3.9=
Acp6	MmuINT0C	chr3:97166	1370	chr3:97166	23.71	OK,OK,5.3=	26.55	OK,OK,7.7=
Slc22a15	MmuINT01	chr3:10188	3235	chr3:10188	0	OK,OK,1.4=	0	LOW,LOW,
Polr3gl	MmuINT01	chr3:96581	314	chr3:96582	28.52	SOK,SOK,20	35.71	SOK,SOK,25
Fubp1	MmuINT0C	chr3:15222	2714	chr3:15222	19.08	SOK,SOK,41	23.17	SOK,SOK,39
Kcnn3	MmuINT0C	chr3:89662	4301	chr3:89662	7.49	OK,OK,4.4=	14.35	OK,OK,2.1=

Wdr3	MmuINT01	chr3:10014	614	chr3:10014	15.56	OK,OK,7.7=	17.24	OK,OK,11.6
Pdlim5	MmuINT1C	chr3:14231	1864	chr3:14231	2.33	OK,OK,0.5=	5.45	OK,OK,0.7=
Scamp3	MmuINT01	chr3:89179	814	chr3:89179	20.13	SOK,SOK,34	22.96	SOK,SOK,31
Cetn4	MmuINT1C	chr3:37310	227	chr3:37310	0	OK,OK,0.0=	0	OK,OK,0.0=
Ccna1	MmuINT0C	chr3:55050	178	chr3:55050	29.3	OK,OK,6.8=	22.6	OK,OK,3.8=
Ank2	MmuINT0C	chr3:12694	10588	chr3:12695	15.06	SOK,SOK,35	15.25	SOK,SOK,35
Spata1	MmuINT01	chr3:14646	2653	chr3:14646	19.51	OK,OK,3.9=	20	OK,OK,3.7=
Slc16a4	MmuINT01	chr3:10730	1840	chr3:10730	16.29	VLOW,VLO	9.76	VLOW,VLO
Slc50a1	MmuINT01	chr3:89269	615	chr3:89269	25.23	SOK,SOK,6.	25.99	SOK,SOK,12
Rrnad1	MmuINT0C	chr3:87928	1807	chr3:87929	37.68	SOK,SOK,49	43.21	SOK,SOK,30
Rrnad1	MmuINT0C	chr3:87927	168	chr3:87927	45.76	SOK,SOK,21	53.71	SOK,SOK,31
Pear1	MmuINT1C	chr3:87760	1826	chr3:87762	0	LOW,LOW,	0	OK,OK,4.7=
Pear1	MmuINT01	chr3:87752	152	chr3:87752	4.62	OK,OK,1.0=	12.68	OK,OK,2.7=
Ciart	MmuINT1C	chr3:95880	269	chr3:95880	0	LOW,LOW,	0	LOW,LOW,
Dennd4b	MmuINT0C	chr3:90268	252	chr3:90268	26.81	OK,OK,5.1=	17.81	OK,OK,4.6=
Dennd4b	MmuINT0C	chr3:90276	489	chr3:90276	8.42	SOK,SOK,3.	11.5	SOK,SOK,7.
Ampd2	MmuINT0C	chr3:10807	260	chr3:10807	24.27	SOK,SOK,32	24.01	SOK,SOK,30
Mov10	MmuINT1C	chr3:10479	150	chr3:10479	11.48	OK,OK,3.8=	7.32	OK,OK,1.7=
Slc7a11	MmuINT01	chr3:50379	1787	chr3:50380	1.1	OK,OK,0.9=	5.71	OK,OK,2.1=
Lrrc7	MmuINT0C	chr3:15817	4346	chr3:15817	12.49	OK,OK,29.8	13.24	OK,OK,19.7
Lrrc7	MmuINT0C	chr3:15816	6169	chr3:15817	21.21	SOK,SOK,9.	18.74	OK,OK,8.1=
Trpc4	MmuINT01	chr3:54302	13322	chr3:54302	19.3	OK,OK,3.0=	15.85	OK,OK,11.1
Atxn7l2	MmuINT0C	chr3:10820	514	chr3:10820	41.44	SOK,SOK,20	36.08	SOK,SOK,32
Zfp697	MmuINT01	chr3:98382	42644	chr3:98382	77.78	VLOW,VLO	58.76	OK,OK,0.0=
Cgn	MmuINT0C	chr3:94775	1076	chr3:94776	32.84	OK,OK,13.6	33.33	SOK,SOK,11
Iqgap3	MmuINT0C	chr3:88097	1258	chr3:88096	3.5	VLOW,VLO	4.98	LOW,LOW,
Rfx5	MmuINT01	chr3:94957	483	chr3:94957	21.43	OK,OK,6.5=	14.81	OK,OK,7.0=
Manba	MmuINT0C	chr3:13556	3138	chr3:13556	3.57	OK,OK,0.0=	2.22	OK,OK,1.6=
Stxbp3	MmuINT01	chr3:10880	1354	chr3:10880	6.45	OK,OK,4.2=	14.75	OK,OK,3.2=
Pde5a	MmuINT01	chr3:12283	3901	chr3:12283	7.34	VLOW,VLO	14.64	LOW,LOW,
Shc1	MmuINT1C	chr3:89418	3468	chr3:89418	60.82	OK,OK,12.5	63.64	VLOW,VLO
Shc1	MmuINT01	chr3:89423	373	chr3:89423	13.62	OK,OK,1.2=	10.99	OK,OK,0.9=
Gstcd	MmuINT0C	chr3:13300	127	chr3:13300	19.42	OK,OK,6.7=	16.87	LOW,LOW,
Gstcd	MmuINT0C	chr3:13298	3165	chr3:13298	10.97	OK,OK,1.4=	22.35	OK,OK,1.6=
Tpd52	MmuINT1C	chr3:89350	9570	chr3:89446	18.18	LOW,LOW,	19.23	OK,OK,3.5=
Rwdd3	MmuINT01	chr3:12115	2251	chr3:12115	21.31	OK,OK,12.5	27.07	SOK,SOK,10
Cyb561d1	MmuINT0C	chr3:10820	464	chr3:10820	67.07	OK,OK,8.1=	64.29	OK,OK,11.1
Kirrel	MmuINT1C	chr3:87088	665	chr3:87089	17.65	OK,OK,1.9=	15.38	VLOW,VLO
Adam15	MmuINT1C	chr3:89340	390	chr3:89340	26.86	SOK,SOK,31	27.18	SOK,SOK,45
Ecm1	MmuINT0C	chr3:95737	123	chr3:95738	15.02	OK,OK,8.0=	19.08	OK,OK,4.3=
Lrig2	MmuINT0C	chr3:10448	8594	chr3:10449	27.9	OK,OK,3.0=	29.54	OK,OK,1.9=
Lrig2	MmuINT0C	chr3:10446	1050	chr3:10446	16.28	OK,OK,6.0=	19.12	OK,OK,6.5=
Oaz3	MmuINT01	chr3:94433	823	chr3:94434	90	VLOW,VLO	69.23	VLOW,VLO
Lrrcc1	MmuINT0C	chr3:14547	713	chr3:14547	24.24	OK,OK,5.3=	22.03	SOK,SOK,7.
Zkscan16	MmuINT01	chr4:58946	2320	chr4:58946	24.14	OK,OK,2.3=	20	OK,OK,4.3=

Tmem67	MmuINT01	chr4:12075	93	chr4:12075	4.35	VLOW,VLO	4	VLOW,VLO
Samd11	MmuINT1C	chr4:15625	1445	chr4:15625	19.23	OK,OK,2.1=	22.03	OK,OK,1.6=
Ptpru	MmuINT01	chr4:13182	14120	chr4:13183	2.48	OK,OK,1.6=	6.83	OK,OK,1.2=
Ptpru	MmuINT01	chr4:13177	931	chr4:13177	25.4	SOK,SOK,1	25.97	SOK,SOK,2
Fggy	MmuINT0C	chr4:95812	9808	chr4:95812	0	VLOW,VLO	3.05	LOW,LOW,
Ppie	MmuINT01	chr4:12313	1194	chr4:12313	18.3	OK,OK,2.1=	25.18	OK,SOK,3.0
1700123M	MmuINT1C	chr4:11976	869	chr4:11976	5	LOW,LOW,	4.76	VLOW,VLO
Pik3cd	MmuINT01	chr4:14965	542	chr4:14965	13.98	SOK,SOK,5.	9.18	SOK,SOK,3.
Pik3cd	MmuINT01	chr4:14965	78	chr4:14965	60.58	OK,OK,65.2	63.02	SOK,SOK,8
Tinagl1	MmuINT01	chr4:13016	103	chr4:13016	20	VLOW,VLO	9.09	LOW,LOW,
Mmp23	MmuINT0C	chr4:15565	123	chr4:15565	31.03	VLOW,VLO	36.59	VLOW,VLO
Cep85	MmuINT0C	chr4:13413	9081	chr4:13414	30.96	OK,OK,102	23.01	OK,OK,92.9
P3h1	MmuINT0C	chr4:11924	1527	chr4:11924	18.97	OK,OK,9.3=	17.73	OK,OK,7.2=
P3h1	MmuINT0C	chr4:11924	378	chr4:11924	26.45	OK,OK,7.9=	24.54	SOK,SOK,9.
9430015G1	MmuINT0C	chr4:15612	322	chr4:15612	82	SOK,SOK,4	76.34	SOK,SOK,3
9430015G1	MmuINT0C	chr4:15612	90	chr4:15612	87.79	LOW,OK,53	80.4	OK,SOK,87
Mfap2	MmuINT0C	chr4:14101	534	chr4:14101	15.07	SOK,SOK,1	17.54	SOK,SOK,2
Gba2	MmuINT0C	chr4:43570	155	chr4:43570	28.49	SOK,SOK,5	32.96	SOK,SOK,7
Susd1	MmuINT01	chr4:59315	302	chr4:59315	9.12	OK,OK,1.6=	15.95	OK,OK,3.0=
Zbtb40	MmuINT01	chr4:13700	226	chr4:13700	11.76	LOW,LOW,	10.64	OK,OK,2.1=
Ago4	MmuINT1C	chr4:12651	192	chr4:12651	14.29	OK,OK,1.5=	22.81	OK,OK,2.2=
Ago4	MmuINT0C	chr4:12651	1264	chr4:12651	24.59	OK,OK,3.9=	24.53	LOW,LOW,
Adprhl2	MmuINT0C	chr4:12631	316	chr4:12631	22.63	SOK,SOK,2	30.38	SOK,SOK,3
Dnajc16	MmuINT0C	chr4:14176	965	chr4:14176	33.33	OK,OK,15.8	25	SOK,SOK,1
Trp73	MmuINT01	chr4:15406	182	chr4:15406	6.43	LOW,LOW,	15.97	VLOW,VLO
Focad	MmuINT0C	chr4:88121	3229	chr4:88121	15.07	OK,OK,2.5=	13.25	OK,OK,6.3=
Fancg	MmuINT0C	chr4:43008	234	chr4:43009	17.43	OK,OK,5.8=	19.73	OK,OK,7.9=
Ptch2	MmuINT01	chr4:11710	609	chr4:11710	17.2	VLOW,VLO	10.26	VLOW,VLO
Ptch2	MmuINT1C	chr4:11711	2359	chr4:11711	22.23	LOW,LOW,	20.36	LOW,LOW,
Tmem268	MmuINT0C	chr4:63580	279	chr4:63579	7.32	LOW,LOW,	4.76	OK,OK,1.2=
Dvl1	MmuINT0C	chr4:15585	85	chr4:15585	44.99	SOK,SOK,2	41.7	SOK,SOK,2
Faah	MmuINT0C	chr4:11600	276	chr4:11600	13.09	SOK,SOK,1	12.17	SOK,SOK,1
Pqlc2	MmuINT01	chr4:13930	397	chr4:13930	21.43	OK,OK,3.5=	21.31	OK,OK,3.9=
Pnisr	MmuINT01	chr4:21874	240	chr4:21873	67.43	SOK,SOK,2	60.16	SOK,SOK,2
Gm11837	MmuINT1C	chr4:14930	5670	chr4:14930	20	VLOW,VLO	15	LOW,LOW,
Unc13b	MmuINT01	chr4:43182	47258	chr4:43182	9.04	VLOW,VLO	9.68	VLOW,VLO
Mib2	MmuINT0C	chr4:15565	1163	chr4:15565	34.16	SOK,SOK,3	28.84	SOK,SOK,6
Mib2	MmuINT0C	chr4:15565	371	chr4:15565	19.85	SOK,SOK,3	24.7	SOK,SOK,4
Epha8	MmuINT0C	chr4:13693	2100	chr4:13693	11	SOK,SOK,1	14.04	SOK,SOK,8.
Ttc4	MmuINT01	chr4:10666	459	chr4:10666	49.83	SOK,SOK,7	46.54	SOK,SOK,8
Sh2d5	MmuINT01	chr4:13825	3103	chr4:13825	33.33	OK,OK,6.7=	38.1	OK,OK,6.7=
Sh2d5	MmuINT1C	chr4:13825	141	chr4:13825	22.92	OK,OK,11.0	21.67	OK,OK,12.6
Sh2d5	MmuINT01	chr4:13825	150	chr4:13825	37.5	OK,OK,20.1	27.17	SOK,SOK,1
Inpp5b	MmuINT0C	chr4:12479	818	chr4:12479	10.41	SOK,SOK,5.	14.56	SOK,SOK,1
Inpp5b	MmuINT0C	chr4:12479	1388	chr4:12479	28.71	SOK,SOK,1	23.69	SOK,SOK,1

Gm11266	MmuINT1C	chr4:82508	38006	chr4:82508	31.43	OK,OK,0.7=	25	OK,OK,1.2=
Exosc10	MmuINT0C	chr4:14857	2193	chr4:14857	26.3	SOK,SOK,3	27.53	SOK,SOK,3
Usp48	MmuINT01	chr4:13761	4554	chr4:13761	53.69	SOK,SOK,4	47.03	SOK,SOK,5
Podn	MmuINT01	chr4:10802	1312	chr4:10802	38.89	VLOW,VLO	50	VLOW,VLO
Asap3	MmuINT0C	chr4:13623	1681	chr4:13623	16.28	LOW,LOW,	10.34	VLOW,VLO
Nol9	MmuINT01	chr4:15204	511	chr4:15204	16.04	SOK,SOK,1	13.54	SOK,SOK,9.
Tmem35b	MmuINT0C	chr4:12712	1625	chr4:12712	55.26	OK,OK,11.1	37.86	OK,OK,7.4=
Ttc39b	MmuINT01	chr4:83240	1451	chr4:83241	1.54	OK,OK,0.2=	8.33	OK,OK,2.1=
Ttc39b	MmuINT01	chr4:83237	2717	chr4:83240	11.32	OK,OK,2.8=	19.51	OK,OK,2.1=
Atp13a2	MmuINT1C	chr4:14100	175	chr4:14100	47.81	SOK,SOK,1	50	SOK,SOK,1
Map3k7	MmuINT0C	chr4:31974	2390	chr4:31974	9.77	SOK,SOK,5.	8.57	SOK,SOK,5.
Cc2d1b	MmuINT0C	chr4:10862	1438	chr4:10861	26.92	LOW,LOW,	35.9	OK,OK,11.4
Mast2	MmuINT0C	chr4:11633	6952	chr4:11633	20.63	OK,OK,6.4=	19.44	OK,OK,10.7
Ttc34	MmuINT01	chr4:15486	434	chr4:15486	13.58	OK,OK,0.0=	23.26	VLOW,VLO
Agrn	MmuINT0C	chr4:15617	412	chr4:15617	35.47	SOK,SOK,1	37.82	SOK,SOK,2
Nsun4	MmuINT01	chr4:11604	4455	chr4:11604	3.45	OK,OK,0.9=	3.12	OK,OK,0.5=
Srrm1	MmuINT01	chr4:13534	2065	chr4:13534	32.46	SOK,SOK,5	37.55	SOK,SOK,7
Pank4	MmuINT01	chr4:15497	345	chr4:15497	7.98	OK,OK,4.2=	11.96	SOK,SOK,7.
Pank4	MmuINT01	chr4:15497	2060	chr4:15497	51.29	SOK,SOK,2	49.21	SOK,SOK,3
Atad3a	MmuINT1C	chr4:15575	269	chr4:15575	20.43	SOK,SOK,1	20.65	SOK,SOK,2
Atad3a	MmuINT0C	chr4:15574	415	chr4:15574	25.49	SOK,SOK,2	29.11	SOK,SOK,3
Aim1l	MmuINT0C	chr4:13409	813	chr4:13409	34.88	VLOW,VLO	45.24	OK,OK,3.9=
Pafah2	MmuINT01	chr4:13440	762	chr4:13440	36.15	OK,OK,10.0	34	LOW,LOW,
Pafah2	MmuINT01	chr4:13441	4586	chr4:13441	14.92	OK,OK,2.5=	13.35	OK,OK,1.6=
Whrn	MmuINT01	chr4:63419	12356	chr4:63431	27.08	OK,OK,6.0=	21.01	OK,OK,4.4=
Ubxn11	MmuINT01	chr4:13411	305	chr4:13411	12.69	OK,OK,3.0=	8.55	OK,OK,1.4=
Ubxn11	MmuINT01	chr4:13412	111	chr4:13412	8.74	OK,OK,7.3=	8.07	OK,OK,9.0=
Thap3	MmuINT1C	chr4:15198	1932	chr4:15198	40.35	SOK,SOK,5	41.11	SOK,SOK,8
Aldh4a1	MmuINT0C	chr4:13962	10517	chr4:13962	3.16	OK,OK,0.7=	2.04	OK,OK,1.6=
Npr2	MmuINT01	chr4:43641	180	chr4:43640	44.77	SOK,SOK,3	41.34	SOK,SOK,4
Tek	MmuINT01	chr4:94865	7522	chr4:94865	0	OK,OK,0.9=	4.79	OK,OK,0.5=
Otud3	MmuINT01	chr4:13890	3979	chr4:13891	3.45	OK,OK,2.8=	6.17	OK,OK,3.0=
Anks6	MmuINT0C	chr4:47024	1006	chr4:47025	42.76	OK,OK,15.5	38.84	OK,OK,18.1
Nsmaf	MmuINT01	chr4:64172	538	chr4:64177	45.4	SOK,SOK,1	42.72	SOK,SOK,2
Dennd4c	MmuINT1C	chr4:86829	6713	chr4:86829	3.99	OK,OK,0.0=	0	OK,OK,0.0=
Tstd2	MmuINT01	chr4:46135	2788	chr4:46138	89.47	LOW,LOW,	94.44	LOW,LOW,
Ptprf	MmuINT01	chr4:11821	3303	chr4:11822	15.31	OK,OK,14.1	19.82	OK,OK,20.4
Zscan20	MmuINT01	chr4:12858	1007	chr4:12858	21.21	VLOW,VLO	23.4	LOW,LOW,
Kif17	MmuINT0C	chr4:13829	515	chr4:13829	9.4	OK,OK,3.0=	7.78	OK,OK,1.6=
Lepr	MmuINT0C	chr4:10177	5621	chr4:10177	22.94	LOW,OK,1.	28.42	LOW,OK,0.
Wrap73	MmuINT01	chr4:15415	734	chr4:15415	23.88	SOK,SOK,1	31.95	SOK,SOK,1
Necap2	MmuINT01	chr4:14107	2295	chr4:14107	41.13	SOK,SOK,2	39.34	SOK,SOK,2
Rars2	MmuINT01	chr4:34633	3238	chr4:34633	10.87	OK,OK,5.8=	9.54	OK,OK,6.0=
Htra3	MmuINT0C	chr5:35655	8370	chr5:35663	19.3	OK,OK,2.1=	15.69	OK,OK,3.7=
Gm10419	MmuINT1C	chr5:10836	1042	chr5:10836	59.48	SOK,SOK,3	60.61	SOK,SOK,3

Atp6v0a2	MmuINT0C	chr5:12471	2072	chr5:12471	27.46	SOK,SOK,1	36.57	SOK,SOK,2
Mapre3	MmuINT0C	chr5:30863	1168	chr5:30863	69.7	SOK,SOK,9	71.12	SOK,SOK,1
Nsun5	MmuINT01	chr5:13537	82	chr5:13537	15.69	SOK,SOK,2	22.12	SOK,SOK,4
Nsun5	MmuINT01	chr5:13537	169	chr5:13537	32.79	OK,OK,12.2	30.48	OK,OK,13.7
Mlxip	MmuINT0C	chr5:12344	670	chr5:12344	8.24	OK,OK,5.8=	5.49	OK,OK,4.6=
Prkag2	MmuINT1C	chr5:24908	39031	chr5:24947	51.97	SOK,SOK,0.	50.96	SOK,SOK,0.
Exoc1	MmuINT0C	chr5:7656C	885	chr5:7656C	23.77	SOK,SOK,3	28.17	SOK,SOK,5
Ache	MmuINT0C	chr5:13728	1644	chr5:13728	42.97	SOK,SOK,3	39.47	SOK,SOK,3
Chfr	MmuINT0C	chr5:11016	1224	chr5:11016	36.28	SOK,SOK,3	36.3	SOK,SOK,3
Aasdh	MmuINT0C	chr5:76877	745	chr5:76878	33.33	OK,OK,7.0=	20	OK,OK,7.9=
Aasdh	MmuINT0C	chr5:76876	1104	chr5:76877	47.13	OK,OK,12.9	47.59	OK,OK,8.3=
Glt1d1	MmuINT0C	chr5:12769	3116	chr5:12769	8.79	OK,OK,11.1	16.38	OK,OK,11.8
Ift172	MmuINT0C	chr5:31261	995	chr5:31262	34.08	SOK,SOK,1	30.33	SOK,SOK,3
Grid2ip	MmuINT0C	chr5:14338	519	chr5:14338	26.53	LOW,LOW,	36.17	LOW,LOW,
Slc5a6	MmuINT01	chr5:3104C	345	chr5:31041	21.18	SOK,SOK,1	25.52	SOK,SOK,1
Ddx51	MmuINT0C	chr5:11065	151	chr5:11065	44.97	OK,OK,15.4	46.39	OK,OK,20.6
Ddx51	MmuINT0C	chr5:11065	86	chr5:11065	17.54	OK,OK,16.1	17.77	OK,OK,13.2
Nos3	MmuINT01	chr5:24371	151	chr5:24371	12.66	OK,OK,3.1=	6.08	OK,OK,3.1=
Rasl11a	MmuINT01	chr5:14684	123	chr5:14684	3.23	OK,OK,2.4=	10.45	OK,OK,3.8=
Trip6	MmuINT01	chr5:13731	251	chr5:13731	35.14	OK,OK,11.8	46.32	SOK,SOK,1
Gpc2	MmuINT0C	chr5:13827	660	chr5:13827	33.15	SOK,SOK,4	32.85	SOK,SOK,5
Gpc2	MmuINT0C	chr5:13827	132	chr5:13827	18	SOK,SOK,6	19.37	SOK,SOK,6
Muc3a	MmuINT1C	chr5:13721	514	chr5:13721	53.19	VLOW,VLO	72	LOW,LOW,
Zfyve28	MmuINT01	chr5:34199	16816	chr5:34216	28.16	OK,OK,1.4=	20.93	OK,OK,2.5=
Grk4	MmuINT0C	chr5:34752	2876	chr5:34752	3.7	VLOW,VLO	14.29	VLOW,VLO
Idua	MmuINT0C	chr5:10868	110	chr5:10868	34.07	OK,OK,15.5	27.71	OK,OK,13.2
Pex1	MmuINT01	chr5:36261	1383	chr5:36260	25.15	OK,OK,11.1	26.74	OK,OK,10.7
Pex1	MmuINT1C	chr5:36275	2387	chr5:36275	26.67	OK,OK,62.8	20.33	OK,OK,84.3
Ep400	MmuINT0C	chr5:11069	1650	chr5:11069	10.08	SOK,SOK,7.	13.22	SOK,SOK,9.
Mfsd10	MmuINT0C	chr5:34634	151	chr5:34634	59.4	SOK,SOK,7	62.06	SOK,SOK,9
Atp8a1	MmuINT0C	chr5:67776	2761	chr5:67778	14.17	OK,OK,6.0=	10.67	OK,OK,2.5=
Pitpnm2	MmuINT01	chr5:12412	1211	chr5:12412	28.47	SOK,SOK,3	33.11	SOK,SOK,4
Ints1	MmuINT0C	chr5:13977	86	chr5:13977	33.14	OK,OK,29.3	30.98	OK,OK,37.8
Gm43248	MmuINT1C	chr5:99742	7798	chr5:99750	56.44	VLOW,VLO	40.82	VLOW,VLO
Ap4m1	MmuINT0C	chr5:13817	349	chr5:13817	36.14	SOK,SOK,1	41.24	SOK,SOK,1
Ap4m1	MmuINT0C	chr5:13817	91	chr5:13817	18.92	OK,OK,25.0	25.52	OK,OK,43.3
Crybb3	MmuINT0C	chr5:11307	1463	chr5:11307	32.13	OK,OK,2.8=	32.14	LOW,LOW,
Abhd1	MmuINT1C	chr5:30950	2636	chr5:30950	45.83	LOW,LOW,	43.09	LOW,LOW,
Pole	MmuINT01	chr5:11030	282	chr5:11030	3.92	VLOW,VLO	4.6	VLOW,VLO
Gm26779	MmuINT1C	chr5:10988	4356	chr5:10988	100	LOW,LOW,	100	LOW,LOW,
Dgkq	MmuINT0C	chr5:10865	671	chr5:10865	71.18	SOK,SOK,3	71.55	SOK,SOK,3
Slc25a40	MmuINT01	chr5:84230	4156	chr5:84228	21.64	OK,OK,1.4=	31.38	VLOW,VLO
Slc25a40	MmuINT1C	chr5:84407	1658	chr5:84407	52.21	OK,OK,9.7=	47.51	OK,OK,8.1=
Nfxl1	MmuINT1C	chr5:72541	9259	chr5:72550	6.09	OK,OK,NA=	11.26	OK,OK,NA=
Asl	MmuINT0C	chr5:13001	1365	chr5:13001	10.14	OK,OK,1.6=	18.18	SOK,SOK,1.

Trafd1	MmuINT01	chr5:12138	1420	chr5:12138	20.55	SOK,SOK,2	18.25	SOK,SOK,2
Actl6b	MmuINT0C	chr5:13755	372	chr5:13755	28.34	SOK,SOK,6	31.71	SOK,SOK,7
Gpat3	MmuINT0C	chr5:10089	4204	chr5:10089	5.88	LOW,LOW,	4.17	OK,OK,0.2=
Mphosph9	MmuINT01	chr5:12426	16460	chr5:12428	45.1	OK,OK,3.2=	44.14	OK,OK,4.4=
Cfap69	MmuINT0C	chr5:55872	1841	chr5:55891	66.81	SOK,SOK,2	64.61	SOK,SOK,1
Alkbh2	MmuINT1C	chr5:11412	1795	chr5:11412	17.86	OK,OK,10.4	16.13	OK,OK,4.6=
P2rx4	MmuINT01	chr5:12271	116	chr5:12271	0	LOW,LOW,	0	LOW,LOW,
P2rx4	MmuINT01	chr5:12272	446	chr5:12272	7.32	OK,OK,2.8=	9.52	OK,OK,3.7=
Kmt2c	MmuINT0C	chr5:25281	260	chr5:25281	14.86	OK,OK,4.6=	15.77	OK,OK,9.5=
Trrap	MmuINT01	chr5:14485	294	chr5:14485	17.05	SOK,SOK,7	11.57	SOK,SOK,1
Tchp	MmuINT01	chr5:11471	1118	chr5:11471	22.06	OK,OK,11.1	33.69	SOK,SOK,1
Pkd2	MmuINT01	chr5:10448	1229	chr5:10448	22.98	OK,OK,9.7=	24.51	SOK,SOK,1
E130006D(	MmuINT1C	chr5:11173	7932	chr5:11174	28	OK,OK,7.9=	31.65	OK,OK,7.9=
Bicdl1	MmuINT0C	chr5:11567	2779	chr5:11567	9.47	OK,OK,3.2=	7.69	OK,OK,3.7=
Shh	MmuINT01	chr5:28461	4877	chr5:28466	0	VLOW,VLO	0	VLOW,VLO
Cep135	MmuINT0C	chr5:76637	992	chr5:76636	26.12	OK,OK,3.8=	31.45	OK,OK,7.3=
Cep135	MmuINT0C	chr5:76638	655	chr5:76638	45.24	OK,OK,7.9=	42.44	OK,OK,9.3=
Tmem243	MmuINT0C	chr5:91175	890	chr5:91174	25.71	VLOW,VLO	16.67	VLOW,VLO
Gpn3	MmuINT0C	chr5:12238	92	chr5:12238	12.37	OK,OK,7.3=	9.32	SOK,SOK,1
Gpn3	MmuINT0C	chr5:12238	553	chr5:12238	13.67	SOK,SOK,6.	16.96	SOK,SOK,1
Ddx55	MmuINT0C	chr5:12455	1999	chr5:12455	50.29	SOK,SOK,2	51.51	SOK,SOK,2
Pisd	MmuINT01	chr5:32739	25399	chr5:32764	32.8	SOK,SOK,0.	33.01	SOK,SOK,0.
Pisd	MmuINT01	chr5:32737	531	chr5:32737	23.23	SOK,SOK,6	21.4	SOK,SOK,7
Krtcap3	MmuINT0C	chr5:31252	83	chr5:31252	100	VLOW,VLO	100	VLOW,VLO
Stx2	MmuINT01	chr5:12899	903	chr5:12899	29.36	OK,OK,6.3=	21.02	OK,OK,7.0=
Stx2	MmuINT01	chr5:12898	2051	chr5:12899	60.52	SOK,SOK,1	65.8	SOK,SOK,2
Gnpda2	MmuINT0C	chr5:69579	5281	chr5:69584	2.22	OK,OK,3.9=	2.94	OK,OK,1.4=
Gm16001	MmuINT1C	chr5:12411	93	chr5:12411	84	VLOW,VLO	76.92	VLOW,VLO
Nsun7	MmuINT01	chr5:66264	11893	chr5:66264	61.7	LOW,LOW,	69.7	VLOW,VLO
Rpap2	MmuINT01	chr5:10761	1645	chr5:10761	18.08	OK,OK,1.6=	15.98	OK,OK,1.4=
Otof	MmuINT01	chr5:30384	119	chr5:30384	3.57	OK,OK,1.5=	11.11	OK,OK,9.0=
P2rx2	MmuINT01	chr5:11034	144	chr5:11034	11.11	LOW,LOW,	12.12	OK,OK,1.8=
Clip1	MmuINT0C	chr5:12362	2814	chr5:12363	14.31	OK,OK,1.4=	8.43	OK,OK,3.7=
Clip1	MmuINT0C	chr5:12358	7154	chr5:12359	46.49	SOK,SOK,1	43.11	SOK,SOK,2
Clip1	MmuINT0C	chr5:12358	2595	chr5:12358	50.56	LOW,LOW,	23.49	OK,OK,11.1
Mmab	MmuINT0C	chr5:11443	242	chr5:11443	7.28	OK,OK,4.4=	6.47	OK,OK,5.6=
Rfc2	MmuINT01	chr5:13459	1969	chr5:13459	26.63	SOK,SOK,4	31.85	SOK,SOK,6
Tfr2	MmuINT01	chr5:13757	94	chr5:13757	76.81	LOW,LOW,	64.41	LOW,OK,3
Gtpbp10	MmuINT1C	chr5:55574	2026	chr5:55594	2.78	OK,OK,1.6=	15.62	OK,OK,1.4=
Tbc1d1	MmuINT01	chr5:64282	1921	chr5:64281	16.67	OK,OK,6.3=	14.29	OK,OK,2.1=
Nupl2	MmuINT01	chr5:24169	6063	chr5:24169	18.33	OK,OK,2.1=	11.08	OK,OK,5.5=
Hps4	MmuINT0C	chr5:11236	1964	chr5:11236	35.74	OK,OK,10.7	30.1	OK,OK,7.9=
Hps4	MmuINT0C	chr5:11236	482	chr5:11236	20.51	OK,OK,5.3=	16.24	OK,OK,4.6=
Cecr5	MmuINT0C	chr6:12051	1363	chr6:12051	44.5	SOK,SOK,1	55.13	SOK,SOK,2
Cecr5	MmuINT0C	chr6:12051	2477	chr6:12051	48.6	SOK,SOK,3	56.3	SOK,SOK,2

Rad52	MmuINT01	chr6:11991	795	chr6:11991	34.38	OK,OK,5.8=	28.36	OK,OK,8.2=
Foxm1	MmuINT0C	chr6:12837	882	chr6:12837	15.97	OK,OK,4.2=	17.99	OK,OK,5.1=
Ephb6	MmuINT0C	chr6:41616	353	chr6:41616	21.15	SOK,SOK,2	23.23	SOK,SOK,3
Ephb6	MmuINT0C	chr6:41617	248	chr6:41617	26.22	SOK,SOK,3	30.1	SOK,SOK,4
Plekha5	MmuINT01	chr6:14055	3152	chr6:14055	45.3	SOK,SOK,1	53.69	SOK,SOK,2
Rtkn	MmuINT01	chr6:8315C	807	chr6:83149	18.73	OK,OK,3.9=	23.3	OK,OK,4.2=
Styk1	MmuINT01	chr6:13131	333	chr6:13131	20	OK,OK,1.4=	22.22	OK,OK,2.1=
Efcab12	MmuINT0C	chr6:11582	1915	chr6:11582	19.23	OK,OK,2.1=	17.65	VLOW,VLO
Nat8f4	MmuINT1C	chr6:85902	2382	chr6:85904	28.57	LOW,LOW,	16.67	OK,OK,0.5=
Mbd4	MmuINT1C	chr6:11584	3288	chr6:11584	55.36	VLOW,VLO	64.43	OK,OK,5.1=
Kdm7a	MmuINT0C	chr6:39169	1020	chr6:3917C	16.97	VLOW,VLO	9.09	VLOW,VLO
Amn1	MmuINT0C	chr6:14918	3111	chr6:14918	9.86	OK,OK,2.2=	4.76	OK,OK,1.7=
Gstk1	MmuINT0C	chr6:42247	149	chr6:42247	1.53	OK,OK,1.4=	4.18	LOW,OK,1.
Zfp467	MmuINT01	chr6:48439	2492	chr6:48441	22.51	SOK,SOK,1	25.55	SOK,SOK,1
Arntl2	MmuINT0C	chr6:14682	398	chr6:14682	21.43	VLOW,VLO	16.92	OK,OK,3.0=
Arntl2	MmuINT0C	chr6:14682	1506	chr6:14682	49.09	LOW,LOW,	49.3	LOW,LOW,
Fancd2	MmuINT0C	chr6:11358	1934	chr6:11358	62.89	LOW,LOW,	68.61	LOW,LOW,
Fancd2	MmuINT0C	chr6:11358	1133	chr6:11358	24.05	LOW,LOW,	21.86	OK,OK,4.2=
Tpra1	MmuINT01	chr6:8891C	146	chr6:8891C	49.72	SOK,SOK,2	44.13	SOK,SOK,3
Wdr54	MmuINT01	chr6:83154	294	chr6:83154	12.28	OK,OK,4.4=	13.49	OK,OK,5.1=
Nup210	MmuINT01	chr6:91025	1400	chr6:91026	45.45	SOK,SOK,2	43.46	SOK,SOK,4
Csgalnact2	MmuINT0C	chr6:11812	1708	chr6:11812	3.9	OK,OK,12.C	3.92	OK,OK,19.3
Gata2	MmuINT0C	chr6:88204	486	chr6:88204	1.54	OK,OK,0.9=	4.35	VLOW,VLO
Nrip2	MmuINT01	chr6:1284C	4633	chr6:12839	19.82	OK,OK,5.1=	18.07	OK,OK,7.9=
Smyd5	MmuINT01	chr6:8544C	815	chr6:8544C	29.67	SOK,SOK,6.	30.32	SOK,SOK,9.
Smyd5	MmuINT01	chr6:85441	302	chr6:85441	30.32	SOK,SOK,2	34.43	SOK,SOK,3
Alms1	MmuINT0C	chr6:85629	11604	chr6:85627	6.42	OK,OK,0.7=	3.03	LOW,LOW,
Ddx47	MmuINT0C	chr6:13502	762	chr6:13502	20.09	SOK,SOK,2	23.67	SOK,SOK,3
Rab43	MmuINT01	chr6:87794	16549	chr6:87811	13.51	OK,OK,2.5=	9.52	OK,OK,3.3=
Akr1b10	MmuINT0C	chr6:3439C	1884	chr6:3439C	25.62	VLOW,OK,3	25.54	OK,OK,4.9=
Ankrd26	MmuINT0C	chr6:11854	5330	chr6:11854	21.43	VLOW,VLO	13.31	VLOW,VLO
Tulp3	MmuINT01	chr6:12833	17952	chr6:12835	14.29	OK,OK,0.0=	13.79	OK,OK,0.2=
Rad51ap1	MmuINT01	chr6:12692	1291	chr6:12692	21.86	OK,OK,1.9=	17.77	OK,OK,3.5=
Gmcl1	MmuINT0C	chr6:86707	3042	chr6:8671C	12.45	SOK,SOK,9.	15.93	SOK,SOK,7.
Cpne9	MmuINT0C	chr6:11328	492	chr6:11328	20	LOW,OK,1.	27.27	LOW,LOW,
Cpne9	MmuINT0C	chr6:11328	5523	chr6:11328	16.13	OK,OK,2.1=	18.64	OK,OK,9.0=
Cpne9	MmuINT0C	chr6:11329	1528	chr6:11329	12.88	OK,OK,1.6=	15.97	OK,OK,3.7=
Htra2	MmuINT0C	chr6:83052	234	chr6:83053	40.33	SOK,SOK,4	46.59	SOK,SOK,4
Rpusd3	MmuINT01	chr6:11341	342	chr6:11341	17.19	OK,OK,7.0=	22.27	OK,OK,7.4=
Pot1a	MmuINT01	chr6:25748	1667	chr6:2575C	9.3	OK,OK,4.2=	22.76	OK,OK,3.2=
Gcfc2	MmuINT0C	chr6:81949	1734	chr6:81949	28	LOW,LOW,	30.67	OK,OK,5.2=
Rpia	MmuINT01	chr6:70773	679	chr6:70774	28.46	OK,OK,12.3	25.09	SOK,SOK,1
Slco1a4	MmuINT01	chr6:14181	5374	chr6:14182	1.96	OK,OK,1.4=	9.3	OK,OK,2.5=
Fam60a	MmuINT1C	chr6:14893	13143	chr6:14894	12.68	OK,OK,0.0=	16.36	OK,OK,0.0=
Ubn2	MmuINT01	chr6:38434	5856	chr6:38433	11.63	LOW,LOW,	4.35	VLOW,VLO

Ubn2	MmuINT01	chr6:38487	3233	chr6:38487	22.25	OK,OK,10.2	34.63	OK,OK,8.3=
Ezh2	MmuINT0C	chr6:47541	395	chr6:47542	19.74	SOK,SOK,8.	19.16	OK,OK,8.6=
Caprin2	MmuINT0C	chr6:14887	1206	chr6:14887	9.09	VLOW,VLO	7.14	OK,OK,1.2=
Tapbpl	MmuINT01	chr6:12523	736	chr6:12523	0	OK,OK,0.5=	6.45	OK,OK,0.5=
Vwf	MmuINT01	chr6:1256C	3756	chr6:1256C	1.94	OK,OK,0.5=	1.89	OK,OK,0.5=
Slc13a4	MmuINT01	chr6:35283	1310	chr6:35284	7.49	OK,OK,5.4=	4.5	OK,OK,6.2=
Magi1	MmuINT0C	chr6:93679	1786	chr6:9368C	51.36	SOK,SOK,39	51.51	SOK,SOK,4
Relb	MmuINT01	chr7:19616	1324	chr7:19617	27.27	VLOW,VLO	28.57	LOW,LOW,
Prkd2	MmuINT01	chr7:16857	521	chr7:16857	14.89	OK,OK,1.4=	6.33	OK,OK,4.2=
Zfp444	MmuINT1C	chr7:61741	9688	chr7:61739	71.43	OK,OK,6.0=	79.17	OK,OK,6.0=
Acer3	MmuINT0C	chr7:98244	7882	chr7:98251	3.98	VLOW,VLO	3.98	VLOW,VLO
Phkg2	MmuINT1C	chr7:12757	397	chr7:12757	49.49	SOK,SOK,2	48.6	SOK,SOK,1
Sult1a1	MmuINT01	chr7:12667	718	chr7:12667	4	VLOW,VLO	0	VLOW,VLO
Sult1a1	MmuINT01	chr7:12667	90	chr7:12667	14.55	VLOW,VLO	23.6	VLOW,VLO
Sult1a1	MmuINT1C	chr7:12667	89	chr7:12667	23.81	LOW,LOW,	21.62	OK,OK,13.1
A230077H(	MmuINT1C	chr7:40875	25034	chr7:4090C	66.67	VLOW,VLO	85.37	LOW,LOW,
Spns1	MmuINT01	chr7:12637	993	chr7:12637	21.25	SOK,SOK,2	22.52	SOK,SOK,3
Il18bp	MmuINT0C	chr7:10201	245	chr7:10201	60.78	OK,OK,7.2=	46.02	LOW,LOW,
Prrg2	MmuINT01	chr7:45056	3087	chr7:45059	8.77	OK,OK,1.2=	6.19	OK,OK,3.0=
Syt3	MmuINT1C	chr7:44384	979	chr7:44384	46.15	SOK,SOK,2(	47.37	SOK,SOK,39
Tnfrsf22	MmuINT1C	chr7:14363	612	chr7:14363	14.21	VLOW,LOW	8.86	VLOW,OK,(
Fes	MmuINT0C	chr7:80378	467	chr7:80378	2.58	OK,OK,4.1=	7.57	OK,OK,2.3=
Sptbn4	MmuINT01	chr7:27364	873	chr7:27365	57.57	SOK,SOK,1	55.52	SOK,SOK,1
Zfp382	MmuINT01	chr7:30125	4859	chr7:30125	34.55	LOW,LOW,	22.22	VLOW,VLO
Klc3	MmuINT0C	chr7:19395	71	chr7:19395	75.39	LOW,LOW,	70.44	VLOW,VLO
Klc3	MmuINT0C	chr7:19394	112	chr7:19395	71.01	OK,OK,17.8	74.03	OK,OK,23.9
Adam12	MmuINT0C	chr7:13391	3014	chr7:13391	2.42	LOW,OK,0.	2.01	OK,OK,0.0=
Prkcg	MmuINT01	chr7:33125	1152	chr7:33123	42.56	SOK,SOK,7(	40.08	SOK,SOK,1
Prkcg	MmuINT01	chr7:33138	300	chr7:33136	34.1	SOK,SOK,8	32.98	SOK,SOK,1
Tbc1d17	MmuINT01	chr7:44842	78	chr7:44842	22.26	SOK,SOK,68	28.65	SOK,SOK,1
9330104G(	MmuINT1C	chr7:16872	1298	chr7:16874	33.33	OK,OK,4.4=	38.64	OK,OK,5.8=
Zfp61	MmuINT1C	chr7:24295	897	chr7:24295	29.13	OK,OK,18.5	37.1	OK,OK,14.1
Ctf1	MmuINT0C	chr7:12771	2960	chr7:12771	4.35	OK,OK,1.2=	10	LOW,LOW,
Fam71e1	MmuINT0C	chr7:44497	469	chr7:44496	44.9	OK,OK,3.7=	50.56	OK,OK,2.8=
Ssc5d	MmuINT0C	chr7:49334	2810	chr7:49331	35.22	LOW,OK,8.	32.81	LOW,LOW,
Abcc8	MmuINT0C	chr7:46108	317	chr7:46108	16.83	OK,OK,4.2=	14.85	OK,OK,5.3=
Abcc8	MmuINT0C	chr7:46105	642	chr7:46106	39.36	OK,OK,12.1	36.85	OK,OK,8.3=
Pstk	MmuINT01	chr7:13137	2146	chr7:13137	16.13	SOK,SOK,7.	21.46	SOK,SOK,1
Pvr	MmuINT01	chr7:1991C	3981	chr7:19914	31.51	OK,OK,4.9=	34.62	LOW,LOW,
A230056P1	MmuINT0C	chr7:55976	96	chr7:55976	62.26	LOW,LOW,	62.79	VLOW,VLO
Gramd1a	MmuINT1C	chr7:31134	1079	chr7:31135	59.88	SOK,SOK,2	56.83	SOK,SOK,3(
Plekha7	MmuINT01	chr7:11613	2898	chr7:11614	19.5	OK,OK,1.9=	21.38	SOK,SOK,3.
Ap3b2	MmuINT0C	chr7:81466	1145	chr7:81467	25.78	SOK,SOK,5	25.54	SOK,SOK,9
Trim66	MmuINT01	chr7:10945	386	chr7:10945	8.57	LOW,LOW,	0	VLOW,VLO
Slc1a5	MmuINT01	chr7:16795	71	chr7:16795	20.59	OK,OK,14.3	25.33	OK,OK,22.3

Aspdh	MmuINT0C	chr7:44467	73	chr7:44466	76.12	OK,OK,58.3	76.7	OK,OK,39.4
Aspdh	MmuINT0C	chr7:44467	309	chr7:44467	67.54	LOW,LOW,	50.61	OK,OK,10.0
Cic	MmuINT0C	chr7:25273	11215	chr7:25270	30.74	SOK,SOK,0.	23.08	SOK,SOK,1.
Zc3h4	MmuINT1C	chr7:16402	14256	chr7:16402	6.31	OK,OK,0.7=	7.92	OK,OK,0.9=
Cln3	MmuINT0C	chr7:12657	85	chr7:12657	25	OK,OK,28.2	31.31	OK,OK,29.2
Rabep2	MmuINT01	chr7:12644	93	chr7:12644	16.42	VLOW,SOK	16.42	LOW,SOK,2
Rabep2	MmuINT01	chr7:12644	241	chr7:12644	33.73	OK,SOK,14.	38.04	SOK,SOK,23
Actn4	MmuINT0C	chr7:28911	664	chr7:28912	30.05	SOK,SOK,19	37.73	SOK,SOK,30
Actn4	MmuINT0C	chr7:28907	4425	chr7:28911	22.19	SOK,SOK,7.	29.05	SOK,SOK,7.
Proser3	MmuINT0C	chr7:30543	2351	chr7:30546	34.24	VLOW,VLO	37.29	VLOW,VLO
Mill2	MmuINT0C	chr7:18856	1459	chr7:18856	13.21	OK,OK,0.0=	14.29	LOW,LOW,
Haus5	MmuINT1C	chr7:30659	162	chr7:30659	23.53	OK,OK,7.7=	28.89	OK,OK,11.2
Ndufab1	MmuINT01	chr7:12208	3247	chr7:12209	28.81	OK,OK,0.0=	28.89	LOW,LOW,
Prc1	MmuINT01	chr7:80313	1905	chr7:80313	22.89	OK,OK,8.3=	19.08	LOW,LOW,
Far1	MmuINT0C	chr7:11355	1639	chr7:11355	29.29	SOK,SOK,19	25.93	SOK,SOK,18
Far1	MmuINT0C	chr7:11355	7562	chr7:11355	39.41	SOK,SOK,44	41.57	SOK,SOK,34
Zfp607b	MmuINT0C	chr7:27689	1728	chr7:27689	41.18	VLOW,VLO	49.02	VLOW,VLO
Tpp1	MmuINT01	chr7:10575	1259	chr7:10575	11.91	SOK,SOK,15	14.86	SOK,SOK,10
Zfp446	MmuINT01	chr7:12981	191	chr7:12981	37.86	OK,OK,9.4=	30.86	OK,OK,7.2=
Zfp260	MmuINT01	chr7:30095	4316	chr7:30094	9.09	OK,OK,0.8=	5.88	OK,OK,3.6=
Ttc23	MmuINT1C	chr7:67679	13823	chr7:67678	6.67	OK,OK,1.4=	1.89	OK,OK,1.2=
Usp35	MmuINT01	chr7:97324	951	chr7:97325	19.4	OK,OK,4.4=	20	OK,OK,3.0=
Usp35	MmuINT01	chr7:97321	387	chr7:97322	5.56	OK,OK,2.1=	10.87	OK,OK,3.2=
Usp35	MmuINT01	chr7:97314	5039	chr7:97319	27.06	OK,OK,9.5=	30.61	OK,OK,11.4
Mtg1	MmuINT01	chr7:14014	345	chr7:14014	7.58	OK,OK,2.8=	10.18	OK,OK,6.5=
Dmpk	MmuINT0C	chr7:19084	1831	chr7:19083	73.81	OK,OK,11.8	69.92	SOK,SOK,14
Dmpk	MmuINT0C	chr7:19086	254	chr7:19085	17.33	OK,OK,3.0=	20.83	OK,OK,4.6=
BC017158	MmuINT0C	chr7:12827	1382	chr7:12827	30.84	OK,OK,10.7	33.33	OK,OK,16.5
Spred3	MmuINT01	chr7:29166	1097	chr7:29167	28.57	SOK,SOK,33	28.5	SOK,SOK,41
Pnkp	MmuINT01	chr7:44859	131	chr7:44859	17.83	OK,OK,11.1	15.05	SOK,SOK,17
Akap13	MmuINT0C	chr7:75695	1635	chr7:75695	14.29	OK,OK,0.2=	12.73	OK,OK,0.5=
Rccd1	MmuINT01	chr7:80319	750	chr7:80320	40	OK,OK,10.4	41.88	OK,OK,10.2
2900076A0	MmuINT1C	chr7:81528	216	chr7:81528	25.16	SOK,SOK,17	27.27	SOK,SOK,17
Rras	MmuINT01	chr7:45018	1931	chr7:45017	7.87	OK,OK,0.2=	7.32	OK,OK,0.2=
Calca	MmuINT1C	chr7:11463	510	chr7:11463	0	VLOW,VLO	0	LOW,LOW,
Nadsyn1	MmuINT01	chr7:14380	2302	chr7:14381	4.36	VLOW,VLO	5	LOW,LOW,
Sh2b1	MmuINT01	chr7:12647	1524	chr7:12647	33.33	SOK,SOK,17	28.06	SOK,SOK,19
Atg16l2	MmuINT0C	chr7:10129	286	chr7:10129	80	OK,OK,24.1	79.56	SOK,SOK,31
Dhx34	MmuINT0C	chr7:16202	1135	chr7:16203	56.41	LOW,LOW,	36.26	OK,OK,8.1=
Fan1	MmuINT0C	chr7:64373	180	chr7:64373	69.76	VLOW,VLO	58.12	VLOW,VLO
Vps33b	MmuINT01	chr7:80287	489	chr7:80287	23.16	SOK,SOK,12	26.23	SOK,SOK,19
Six5	MmuINT01	chr7:19095	813	chr7:19094	21.74	LOW,LOW,	26.53	LOW,LOW,
Pik3c2a	MmuINT01	chr7:11636	1946	chr7:11636	10.04	OK,OK,2.3=	10.2	OK,OK,3.5=
Pik3c2a	MmuINT01	chr7:11635	630	chr7:11635	12.53	OK,OK,4.6=	5.75	OK,OK,2.1=
Tnrc6a	MmuINT01	chr7:12317	680	chr7:12317	55.02	SOK,SOK,49	48.63	SOK,SOK,43

Polr3e	MmuINT01	chr7:12093	1311	chr7:12093	14.47	OK,OK,5.8=	18.52	SOK,SOK,8.
Flt3l	MmuINT0C	chr7:45132	1469	chr7:45133	78.33	VLOW,VLO	51.72	VLOW,VLO
Idh2	MmuINT0C	chr7:80097	180	chr7:80098	22.43	SOK,SOK,4	19.63	SOK,SOK,3
Aldh16a1	MmuINT0C	chr7:45148	923	chr7:45149	8.82	OK,OK,3.9=	10	OK,OK,3.9=
Trim68	MmuINT01	chr7:10267	198	chr7:10267	42.31	LOW,LOW,	18.92	OK,OK,6.1=
Megf8	MmuINT0C	chr7:2533C	409	chr7:25329	24.02	SOK,SOK,1	25.73	SOK,SOK,1
Sirt2	MmuINT1C	chr7:28767	4132	chr7:28767	19.54	SOK,SOK,1	16.67	SOK,SOK,2
Shkbp1	MmuINT1C	chr7:27342	482	chr7:27343	44.37	SOK,SOK,4	50.63	SOK,SOK,4
Gm20457	MmuINT1C	chr7:64337	7733	chr7:64345	86.05	VLOW,VLO	75.61	VLOW,VLO
Smim17	MmuINT0C	chr7:64271	2124	chr7:6427C	6.56	OK,OK,1.6=	3.37	OK,OK,1.4=
A030001D	MmuINT1C	chr7:45637	1544	chr7:45638	1.96	OK,OK,9.0=	5.56	OK,OK,8.8=
Ccdc114	MmuINT0C	chr7:45936	2985	chr7:45936	20	VLOW,VLO	11.76	LOW,LOW,
Ccdc114	MmuINT0C	chr7:45942	384	chr7:45942	29.43	VLOW,VLO	11.99	LOW,LOW,
Gm37494	MmuINT1C	chr7:39564	804	chr7:39564	6.98	OK,OK,2.5=	12	OK,OK,1.9=
Ints4	MmuINT0C	chr7:97526	2491	chr7:97526	5.12	SOK,SOK,6.	10.71	SOK,SOK,8.
Shank2	MmuINT01	chr7:14439	8898	chr7:14439	11.07	OK,OK,3.7=	14.23	OK,OK,4.6=
Gpr4	MmuINT0C	chr7:19212	8755	chr7:19212	7.94	OK,OK,2.8=	2.78	OK,OK,0.0=
Arhgef1	MmuINT0C	chr7:24903	4587	chr7:24903	34	OK,OK,21.3	30.65	OK,OK,43.1
Eri2	MmuINT0C	chr7:11979	82	chr7:11979	30.23	LOW,LOW,	33.33	VLOW,VLO
Slc8a2	MmuINT01	chr7:1615C	2374	chr7:1615C	13.45	OK,OK,4.7=	10.53	SOK,SOK,8.
Nat14	MmuINT01	chr7:49226	571	chr7:49222	28.57	OK,OK,23.4	18.6	OK,OK,18.1
Hps5	MmuINT0C	chr7:46774	827	chr7:46775	23.29	OK,OK,4.2=	50	VLOW,VLO
Nfkbid	MmuINT01	chr7:30427	241	chr7:30427	3.7	VLOW,VLO	12.73	OK,OK,1.9=
Atp4a	MmuINT0C	chr7:3072C	1611	chr7:3072C	56.52	VLOW,VLO	44	VLOW,VLO
Dpysl4	MmuINT0C	chr7:13909	1579	chr7:13909	12.74	SOK,SOK,2	13.87	SOK,SOK,3
Stard5	MmuINT01	chr7:83637	2724	chr7:83637	20.55	OK,OK,4.6=	16.13	OK,OK,4.9=
Ears2	MmuINT0C	chr7:12204	1369	chr7:12204	13.35	OK,OK,5.1=	12.71	OK,OK,3.7=
Wdr62	MmuINT01	chr7:3024C	516	chr7:30241	6.85	OK,OK,0.9=	18.83	OK,OK,2.8=
Zscan18	MmuINT01	chr7:1277C	770	chr7:12771	34.63	SOK,SOK,1	39.01	SOK,SOK,1
Lrrc51	MmuINT0C	chr7:10191	222	chr7:10191	50.59	OK,OK,13.7	42.86	OK,OK,10.0
Prpf31	MmuINT1C	chr7:36309	1762	chr7:36308	42.49	SOK,SOK,1.	40.61	SOK,SOK,0.
Lig1	MmuINT0C	chr7:1330C	583	chr7:1330C	41.23	SOK,SOK,1	50.82	SOK,SOK,2
Gm4969	MmuINT1C	chr7:19102	441	chr7:19102	46.95	LOW,LOW,	45.9	OK,OK,7.7=
Cars	MmuINT0C	chr7:14357	579	chr7:14357	22.36	SOK,SOK,1	21.52	SOK,SOK,2
Ptprh	MmuINT01	chr7:45527	107	chr7:45528	4.23	OK,OK,1.8=	3.81	VLOW,VLO
Gm9801	MmuINT1C	chr7:62112	2438	chr7:62114	38.72	VLOW,VLO	27.92	OK,OK,0.7=
4931406P1	MmuINT0C	chr7:34257	123	chr7:34257	10.26	OK,OK,8.0=	11.66	SOK,SOK,1
Upf1	MmuINT1C	chr8:7034C	450	chr8:7034C	17.67	SOK,SOK,1	18.51	SOK,SOK,1
Polb	MmuINT01	chr8:22648	2232	chr8:2265C	15.04	SOK,SOK,9.	12.44	SOK,SOK,7.
Ankle1	MmuINT0C	chr8:71408	622	chr8:71407	2.33	LOW,OK,3.	4	VLOW,VLO
Fanca	MmuINT0C	chr8:12327	1715	chr8:12327	4.86	LOW,LOW,	6.08	LOW,LOW,
Fanca	MmuINT0C	chr8:12326	266	chr8:12327	19.28	LOW,LOW,	15.87	OK,OK,1.4=
Ddx49	MmuINT0C	chr8:70294	605	chr8:70295	12.58	SOK,SOK,5.	10.48	SOK,SOK,5.
Ap1m1	MmuINT0C	chr8:72256	552	chr8:72256	24.28	SOK,SOK,2	28.02	SOK,SOK,2
Mthfsd	MmuINT01	chr8:1211C	1377	chr8:1211C	20.23	OK,OK,11.1	28.33	SOK,SOK,1

Gm5607	MmuINT0C	chr8:1243C	111	chr8:12429	26.23	OK,OK,13.6	26	OK,OK,9.6=
Lpcat2	MmuINT0C	chr8:92871	1797	chr8:92871	13.05	VLOW,VLO	13.2	LOW,LOW,
Lpcat2	MmuINT0C	chr8:92873	1124	chr8:92873	17.78	OK,OK,3.5=	19.87	LOW,LOW,
Lpcat2	MmuINT0C	chr8:92879	7111	chr8:92879	16.67	LOW,LOW,	13.51	LOW,LOW,
Exoc3l	MmuINT0C	chr8:10529	84	chr8:10529	55	VLOW,VLO	46.88	LOW,LOW,
Rfxank	MmuINT1C	chr8:70135	578	chr8:70136	11.54	OK,OK,1.6=	11.76	LOW,LOW,
Rfxank	MmuINT01	chr8:70134	305	chr8:70134	13.3	OK,OK,4.9=	12.5	OK,OK,2.5=
Tarbp1	MmuINT01	chr8:12642	1769	chr8:12643	30.4	LOW,LOW,	25.49	LOW,LOW,
Nfat5	MmuINT01	chr8:10735	2977	chr8:10735	15	LOW,LOW,	2.86	LOW,LOW,
Npy1r	MmuINT01	chr8:66697	6260	chr8:66697	6.06	OK,OK,2.8=	8.7	OK,OK,4.4=
Fuk	MmuINT0C	chr8:11088	1040	chr8:11088	6.98	OK,OK,2.7=	5.88	OK,OK,3.9=
Otud4	MmuINT01	chr8:79646	4657	chr8:79646	13.04	OK,OK,35.7	22.45	LOW,LOW,
Rpgrip1l	MmuINT01	chr8:91305	3024	chr8:91308	30	LOW,LOW,	33.89	LOW,LOW,
Homer3	MmuINT0C	chr8:70283	2133	chr8:70282	9.68	OK,OK,20.3	10.77	OK,OK,23.6
Man2b1	MmuINT0C	chr8:85091	217	chr8:85091	3.7	OK,OK,3.0=	13.64	SOK,SOK,7.
Cars2	MmuINT0C	chr8:11518	7011	chr8:11526	37.95	SOK,SOK,1	34.99	OK,OK,13.2
Slc10a7	MmuINT01	chr8:78698	8303	chr8:78698	1.89	OK,OK,1.4=	11.63	LOW,LOW,
Cenpt	MmuINT0C	chr8:10584	1572	chr8:10584	19.31	SOK,SOK,9	21.23	SOK,SOK,9
Myo9b	MmuINT01	chr8:71339	1739	chr8:71338	61.27	SOK,SOK,2	65.96	SOK,SOK,3
Myo9b	MmuINT01	chr8:71354	410	chr8:71354	16.91	SOK,SOK,1	14.35	SOK,SOK,1
Adamts18	MmuINT0C	chr8:1137C	1526	chr8:1137C	14.67	OK,OK,5.8=	16.85	OK,OK,4.4=
Dctd	MmuINT0C	chr8:4811C	1410	chr8:48109	9.22	OK,OK,1.4=	15.2	OK,OK,0.5=
Dctd	MmuINT1C	chr8:48137	1407	chr8:48137	46.77	OK,OK,18.3	39.06	OK,OK,14.4
Nek3	MmuINT01	chr8:22133	9794	chr8:22142	10.53	LOW,LOW,	13.33	VLOW,VLO
Vps9d1	MmuINT0C	chr8:12324	296	chr8:12324	31.4	SOK,SOK,4	32.77	SOK,SOK,4
D030068K2	MmuINT1C	chr8:10924	1180	chr8:10924	86.67	LOW,LOW,	85.71	OK,OK,6.7=
Unc13a	MmuINT01	chr8:71642	885	chr8:71643	37.08	SOK,SOK,7	35.25	SOK,SOK,7
Isyna1	MmuINT0C	chr8:70595	89	chr8:70595	26.04	SOK,SOK,1	29.63	SOK,SOK,2
Edc4	MmuINT0C	chr8:10588	289	chr8:10588	40.91	SOK,SOK,2	34.29	SOK,SOK,2
Bbs2	MmuINT0C	chr8:94079	1155	chr8:94080	54.63	SOK,SOK,3	59.53	SOK,SOK,4
Banp	MmuINT0C	chr8:12195	23778	chr8:12195	26.09	OK,OK,6.7=	28	OK,OK,7.4=
Yjefn3	MmuINT1C	chr8:69889	71	chr8:69889	17.19	OK,OK,19.1	15.95	OK,OK,22.3
Zdhhc1	MmuINT1C	chr8:10548	1034	chr8:10548	30.23	OK,OK,11.6	24.26	SOK,SOK,1
Jak3	MmuINT0C	chr8:71681	375	chr8:71681	1.89	OK,OK,0.2=	3.33	OK,OK,0.9=
Tfdp1	MmuINT1C	chr8:13338	858	chr8:13338	34.88	VLOW,VLO	29.03	VLOW,VLO
Galns	MmuINT0C	chr8:12258	3743	chr8:12258	17.92	OK,OK,1.4=	15.12	OK,OK,6.7=
Prmt9	MmuINT01	chr8:77568	3650	chr8:77568	7.07	SOK,SOK,7.	8.4	SOK,SOK,6.
Pdpr	MmuINT0C	chr8:11112	1268	chr8:11112	17.65	OK,OK,1.9=	12	OK,OK,4.9=
Dus2	MmuINT0C	chr8:10603	1981	chr8:10603	35.04	OK,OK,10.7	21.89	OK,OK,10.0
Gcdh	MmuINT0C	chr8:84892	258	chr8:84892	21.03	SOK,SOK,1	26.15	SOK,SOK,1
Abcb10	MmuINT0C	chr8:12396	1902	chr8:12396	18.84	SOK,SOK,9.	20.47	OK,SOK,9.7
Ranbp10	MmuINT01	chr8:10577	749	chr8:10577	47.23	SOK,SOK,1	49.88	SOK,SOK,1
Gm19410	MmuINT1C	chr8:35812	2282	chr8:35812	23.04	OK,OK,2.8=	14.99	SOK,SOK,7.
Ushbp1	MmuINT01	chr8:7139C	191	chr8:7139C	87.88	VLOW,VLO	81.25	LOW,LOW,
Pnpla6	MmuINT01	chr8:35155	1124	chr8:35153	31.51	OK,OK,3.0=	23.08	OK,OK,2.3=

Pnpla6	MmuINT01	chr8:35238	131	chr8:35237	19.54	OK,OK,6.4=	18.37	OK,OK,9.8=
Pnpla6	MmuINT01	chr8:3538C	3205	chr8:35379	19.01	SOK,SOK,14	14.76	SOK,SOK,1(
Ikbkb	MmuINT0C	chr8:22669	1900	chr8:22671	31.53	SOK,SOK,1(	26.35	SOK,SOK,18
Ikbkb	MmuINT0C	chr8:22669	510	chr8:22669	34.58	SOK,SOK,13	40.33	SOK,SOK,2!
Fhod1	MmuINT0C	chr8:10533	212	chr8:10533	16.21	OK,OK,2.1=	27.88	OK,OK,6.0=
Wdr59	MmuINT01	chr8:11148	156	chr8:11148	5.92	OK,OK,2.6=	2.76	OK,OK,1.6=
Slc27a1	MmuINT01	chr8:71585	339	chr8:71584	31.56	SOK,SOK,38	31.56	SOK,SOK,4
Zfp821	MmuINT1C	chr8:1097C	493	chr8:1097C	45.5	SOK,SOK,28	43.44	SOK,SOK,28
Cc2d1a	MmuINT0C	chr8:84135	70	chr8:84135	23.14	SOK,SOK,1	30.69	SOK,SOK,19
Crlf1	MmuINT0C	chr8:70501	2026	chr8:70501	15.2	OK,OK,11.6	21.74	OK,OK,19.(
Cdh11	MmuINT1C	chr8:10266	3206	chr8:10266	33.96	SOK,SOK,5!	34.21	SOK,SOK,4(
Sugp1	MmuINT01	chr8:70056	2677	chr8:70056	13.89	SOK,SOK,18	17.78	SOK,SOK,2
Fbxo8	MmuINT0C	chr8:56569	18596	chr8:56569	17.04	OK,OK,3.9=	20.55	OK,OK,3.2=
Clgn	MmuINT0C	chr8:83395	1409	chr8:83395	11.11	OK,OK,0.2=	16.28	LOW,LOW,
Clgn	MmuINT0C	chr8:83408	1250	chr8:83408	23.82	OK,OK,4.2=	17.07	OK,OK,3.9=
Zfp791	MmuINT1C	chr8:85112	1236	chr8:85113	24.32	VLOW,VLO	12.5	VLOW,VLO
Klhdc4	MmuINT0C	chr8:12179	805	chr8:12179	26.02	SOK,SOK,2	22.62	SOK,SOK,2
Dnmt1	MmuINT0C	chr9:20936	540	chr9:20937	8.34	SOK,SOK,5	6.44	SOK,SOK,6
Neil1	MmuINT01	chr9:57144	323	chr9:57144	43.59	OK,OK,16.2	57.64	SOK,SOK,1(
Neil1	MmuINT01	chr9:57144	180	chr9:57144	25.68	OK,OK,10.4	33.84	OK,OK,13.1
Neil1	MmuINT01	chr9:57143	159	chr9:57143	19.5	OK,SOK,6.7	21.78	OK,OK,8.0=
Acy1	MmuINT0C	chr9:10643	475	chr9:10643	20.2	OK,OK,3.2=	17.21	OK,OK,1.6=
Acy1	MmuINT0C	chr9:10643	298	chr9:10643	20.18	LOW,LOW,	23.28	OK,OK,5.6=
Atm	MmuINT0C	chr9:53471	2108	chr9:53473	15.79	OK,OK,3.2=	26.32	OK,OK,5.1=
Zkscan7	MmuINT01	chr9:12289	1913	chr9:12289	41.07	VLOW,VLO	47.99	VLOW,VLO
Dzip1l	MmuINT0C	chr9:99651	3805	chr9:9965C	10.92	OK,OK,3.2=	11.02	OK,OK,5.8=
Camkv	MmuINT0C	chr9:10794	214	chr9:10794	24.56	SOK,SOK,2	30.22	SOK,SOK,3
Ccdc151	MmuINT0C	chr9:21991	83	chr9:21991	6.48	OK,OK,7.2=	4.98	OK,OK,9.3=
Gclc	MmuINT0C	chr9:77786	427	chr9:77786	17.72	SOK,SOK,1(	19.87	SOK,SOK,14
Islr	MmuINT1C	chr9:58158	731	chr9:58158	49.49	OK,OK,3.0=	50.52	OK,OK,1.4=
Tyk2	MmuINT01	chr9:21114	871	chr9:21115	7.46	OK,OK,1.9=	9.43	OK,OK,4.6=
Tyk2	MmuINT01	chr9:21108	736	chr9:21108	28.33	OK,OK,14.8	42.99	OK,OK,19.(
Snx14	MmuINT01	chr9:88398	3548	chr9:88401	57.35	OK,OK,6.3=	54.03	LOW,LOW,
Snx14	MmuINT01	chr9:88376	2570	chr9:88379	18.11	SOK,SOK,8.	21.4	SOK,SOK,1(
Tmod3	MmuINT01	chr9:7550C	4689	chr9:75504	23.25	SOK,SOK,23	28.11	SOK,SOK,29
Plxnb1	MmuINT01	chr9:10909	3625	chr9:10909	15.18	OK,OK,4.2=	10.65	OK,OK,5.3=
Adamts8	MmuINT0C	chr9:30954	1724	chr9:30954	0	OK,OK,0.9=	0	OK,OK,0.2=
Cep162	MmuINT0C	chr9:87212	4089	chr9:87217	2.42	LOW,OK,1.	0	OK,OK,0.9=
Yipf2	MmuINT01	chr9:21589	85	chr9:21589	7.02	OK,OK,9.7=	10.17	OK,OK,7.8=
Cnot10	MmuINT0C	chr9:11459	874	chr9:11459	43.56	SOK,SOK,5	47.59	SOK,SOK,5
Cnot10	MmuINT0C	chr9:11459	188	chr9:11459	41.85	SOK,SOK,6	43.7	SOK,SOK,9
Lrrfip2	MmuINT0C	chr9:1112C	8293	chr9:1112C	37.18	OK,OK,8.8=	34.58	OK,OK,7.7=
Dennd4a	MmuINT0C	chr9:64911	440	chr9:64911	5.68	OK,SOK,3.2	6.93	OK,OK,5.8=
Entpd3	MmuINT0C	chr9:12054	9982	chr9:12054	14.71	OK,OK,21.6	5.56	LOW,LOW,
Igdcc3	MmuINT0C	chr9:65182	106	chr9:65182	3.57	OK,OK,0.6=	0	LOW,LOW,

Kmt2a	MmuINT0C	chr9:44809	837	chr9:44810	26.65	SOK,SOK,29	29.56	SOK,SOK,24
Ptpn23	MmuINT01	chr9:11039	368	chr9:11039	27.95	SOK,SOK,11	31.63	SOK,SOK,22
Lrrc1	MmuINT0C	chr9:77457	366	chr9:77457	0	VLOW,VLO	7.69	VLOW,VLO
A330041J2	MmuINT1C	chr9:86699	589	chr9:86699	46.67	VLOW,VLO	51.35	VLOW,VLO
Senp6	MmuINT01	chr9:80093	10052	chr9:80093	26.67	VLOW,VLO	36	LOW,LOW,
Pigb	MmuINT01	chr9:73017	298	chr9:73017	27.95	OK,OK,15.0	23.05	OK,OK,15.4
Gramd2	MmuINT0C	chr9:59710	560	chr9:59710	17.4	OK,OK,3.7=	12.98	OK,OK,6.3=
Nphp3	MmuINT01	chr9:10403	955	chr9:10403	71.72	OK,OK,9.7=	67.22	LOW,LOW,
Icam5	MmuINT0C	chr9:21032	875	chr9:21032	27.59	SOK,SOK,13	37.81	SOK,SOK,18
Dync2h1	MmuINT0C	chr9:69941	2717	chr9:69968	10.15	OK,OK,3.0=	16.25	OK,OK,5.1=
Fli1	MmuINT0C	chr9:32424	1746	chr9:32426	6.04	LOW,LOW,	0	LOW,LOW,
Fyco1	MmuINT0C	chr9:12383	3972	chr9:12383	61.88	SOK,SOK,13	70.59	OK,OK,10.9
Abcg4	MmuINT0C	chr9:44279	1423	chr9:44281	35.79	SOK,SOK,21	33.99	SOK,SOK,29
Robo4	MmuINT01	chr9:37402	264	chr9:37402	20	LOW,LOW,	28	LOW,LOW,
Vps13c	MmuINT01	chr9:67982	5343	chr9:67982	44.92	OK,OK,38.7	43.9	OK,OK,46.1
Sidt2	MmuINT01	chr9:45945	960	chr9:45946	24.38	SOK,SOK,21	26.97	SOK,SOK,32
Usp19	MmuINT01	chr9:10850	924	chr9:10850	38.35	SOK,SOK,53	41.57	SOK,SOK,58
Qars	MmuINT01	chr9:10851	290	chr9:10851	9.8	SOK,SOK,16	16.59	SOK,SOK,21
Hemk1	MmuINT0C	chr9:10733	902	chr9:10733	54.84	LOW,LOW,	32.39	OK,OK,2.1=
Hemk1	MmuINT0C	chr9:10733	289	chr9:10733	52.29	OK,OK,14.4	52.7	SOK,SOK,19
Hemk1	MmuINT0C	chr9:10733	268	chr9:10733	55.88	SOK,SOK,22	58.97	OK,OK,22.7
Hemk1	MmuINT0C	chr9:10732	1340	chr9:10733	62.34	SOK,SOK,29	57.08	OK,OK,22.2
Tmem25	MmuINT01	chr9:44796	196	chr9:44796	23.34	OK,SOK,12	20.14	SOK,SOK,18
Vwa5a	MmuINT01	chr9:38728	5163	chr9:38728	2.64	LOW,LOW,	0	VLOW,VLO
Robo3	MmuINT01	chr9:37427	249	chr9:37427	35.29	VLOW,VLO	59.32	OK,OK,8.1=
Robo3	MmuINT01	chr9:37416	405	chr9:37417	51.1	OK,OK,5.8=	51.52	SOK,SOK,17
Ip6k1	MmuINT0C	chr9:10804	562	chr9:10804	27.05	SOK,SOK,50	21.01	SOK,SOK,50
Kif23	MmuINT0C	chr9:61919	181	chr9:61919	2.19	OK,OK,0.8=	9.48	OK,OK,1.3=
Ccnb2	MmuINT0C	chr9:70410	1950	chr9:70412	5.62	OK,OK,2.3=	12.15	OK,OK,2.5=
Ripply2	MmuINT01	chr9:87015	237	chr9:87015	81.13	VLOW,VLO	75.51	OK,OK,11.6
Dock3	MmuINT0C	chr9:10690	4743	chr9:10690	11.83	SOK,SOK,21	16.5	SOK,SOK,30
Ubap1l	MmuINT0C	chr9:65372	1621	chr9:65371	9.47	OK,OK,5.4=	7.23	OK,OK,4.7=
Aste1	MmuINT0C	chr9:10540	1709	chr9:10540	69.23	VLOW,VLO	74.19	VLOW,VLO
Commd4	MmuINT0C	chr9:57156	226	chr9:57157	33.84	SOK,SOK,50	34.11	SOK,SOK,68
Usp28	MmuINT01	chr9:49009	1009	chr9:49009	19.43	OK,OK,6.5=	22.03	OK,OK,5.6=
Raver1	MmuINT01	chr9:21080	533	chr9:21080	25.11	SOK,SOK,14	27.42	SOK,SOK,17
Nfrkb	MmuINT1C	chr9:31396	538	chr9:31396	42.57	OK,OK,4.9=	39.29	OK,OK,7.2=
Nfrkb	MmuINT01	chr9:31402	735	chr9:31402	22.96	OK,OK,9.3=	25.24	OK,OK,9.7=
Slc37a4	MmuINT01	chr9:44401	538	chr9:44401	65	OK,OK,45.7	60.75	OK,OK,42.4
Ulk4	MmuINT01	chr9:12116	19906	chr9:12118	0	OK,OK,0.0=	0	LOW,LOW,
Zfp846	MmuINT01	chr9:20590	454	chr9:20590	9.72	OK,OK,3.7=	15	OK,OK,3.7=
Pfkfb4	MmuINT01	chr9:10900	1978	chr9:10900	22.09	OK,OK,8.6=	24.3	SOK,SOK,7.
Cep295	MmuINT0C	chr9:15317	345	chr9:15317	49.56	LOW,LOW,	39.75	OK,OK,10.9
Sema3f	MmuINT01	chr9:10768	2388	chr9:10769	51.31	SOK,SOK,6.	52.38	SOK,SOK,6.
Man2c1	MmuINT0C	chr9:57133	1497	chr9:57133	50.39	SOK,SOK,64	44.71	SOK,SOK,83

Man2c1	MmuINT0C	chr9:5713	209	chr9:5713	41.59	SOK,SOK,4	42.14	SOK,SOK,7
Armc8	MmuINT0C	chr9:9950	303	chr9:9950	32.04	OK,OK,11.4	36.91	SOK,SOK,1
Zmynd10	MmuINT01	chr9:10754	251	chr9:10754	39.62	LOW,LOW,	50.77	LOW,LOW,
Zpr1	MmuINT01	chr9:4627	783	chr9:4627	15.54	SOK,SOK,2	16.2	SOK,SOK,2
Scn5a	MmuINT01	chr9:1194	1441	chr9:1194	5.66	OK,OK,0.9=	0	OK,OK,0.7=
Pts	MmuINT01	chr9:50524	482	chr9:50525	39.48	SOK,SOK,3	33.56	SOK,SOK,3
Akap17b	MmuINT0C	chrX:36624	12136	chrX:3663	42.86	VLOW,VLO	41.82	LOW,LOW,
Chrdl1	MmuINT1C	chrX:1432	5527	chrX:1432	49.55	VLOW,VLO	42.04	VLOW,VLO
L1cam	MmuINT0C	chrX:73858	1145	chrX:7385	13.63	SOK,SOK,8	15.96	SOK,SOK,1
Igsf1	MmuINT0C	chrX:49794	349	chrX:4979	5.5	OK,OK,0.9=	10.16	VLOW,OK,
Igsf1	MmuINT1C	chrX:49792	1804	chrX:4979	10.17	OK,OK,3.0=	19.7	OK,OK,2.8=
Wdr45	MmuINT01	chrX:7726	161	chrX:7725	16.07	OK,OK,8.4=	16.94	SOK,SOK,1
A230072C	MmuINT1C	chrX:20985	513	chrX:20985	57.01	OK,OK,11.6	60.57	LOW,LOW,
Ccdc160	MmuINT0C	chrX:52791	6733	chrX:52791	2.22	OK,OK,0.5=	2.33	OK,OK,0.7=
Phka2	MmuINT01	chrX:16052	1110	chrX:16052	58.82	OK,OK,7.4=	58.73	OK,OK,10.7
Phka2	MmuINT01	chrX:16057	737	chrX:16057	29.15	OK,OK,7.2=	22.33	SOK,SOK,1
Drp2	MmuINT0C	chrX:13444	808	chrX:13444	30	SOK,SOK,4	30.94	SOK,SOK,5
Slc25a14	MmuINT1C	chrX:48624	5054	chrX:48623	28.79	OK,OK,3.5=	26.61	OK,OK,3.5=
Renbp	MmuINT01	chrX:7393	145	chrX:7393	5.82	OK,OK,0.7=	4.17	OK,OK,3.3=
Col4a6	MmuINT0C	chrX:1411	678	chrX:1411	7.91	OK,OK,0.2=	8.57	OK,OK,0.2=
Phf8	MmuINT1C	chrX:15162	4848	chrX:15162	17.16	OK,SOK,4.9	18.1	OK,OK,3.7=
Utp14a	MmuINT01	chrX:48263	9167	chrX:48263	16.85	OK,OK,2.1=	16.08	OK,OK,1.9=
Stard8	MmuINT01	chrX:99071	935	chrX:99071	18.92	LOW,LOW,	13.95	OK,OK,1.4=
Klhl4	MmuINT0C	chrX:11454	6182	chrX:11454	26.04	OK,OK,1.4=	26.03	OK,OK,1.6=
Gm15726	MmuINT1C	chrX:16998	4939	chrX:16998	53.85	LOW,LOW,	52.17	OK,OK,0.7=
Gdpd2	MmuINT0C	chrX:10073	216	chrX:10073	60.61	SOK,SOK,4	66.08	SOK,SOK,5
Araf	MmuINT0C	chrX:20857	469	chrX:20857	9.33	OK,OK,5.3=	9.83	OK,OK,5.3=
A230072E1	MmuINT1C	chrX:1512	1583	chrX:1512	90	VLOW,VLO	82.61	VLOW,VLO
Las1l	MmuINT0C	chrX:9595	863	chrX:9595	57.91	SOK,SOK,8	61.62	SOK,SOK,1
Mpp1	MmuINT01	chrX:75113	567	chrX:75114	21.83	SOK,SOK,7.	17.53	SOK,SOK,1
Mid1	MmuINT0C	chrX:1699	10763	chrX:1699	33.33	OK,OK,3.0=	51.52	LOW,LOW,
Gripap1	MmuINT0C	chrX:78183	777	chrX:78182	35.48	SOK,SOK,4	39.56	SOK,SOK,5
Tbl1x	MmuINT01	chrX:77648	952	chrX:77648	35.32	SOK,SOK,2	39.5	SOK,SOK,3
Fam3a	MmuINT0C	chrX:7438	317	chrX:74387	35.98	SOK,SOK,5.	32.2	OK,OK,6.0=
Ccdc22	MmuINT0C	chrX:75997	885	chrX:7600	33.74	SOK,SOK,1	30.44	SOK,SOK,1
Ccdc22	MmuINT0C	chrX:75993	97	chrX:75994	28.03	SOK,SOK,2	29.56	SOK,SOK,3
Irak1	MmuINT0C	chrX:74021	221	chrX:74022	29.8	SOK,SOK,1	30.97	SOK,SOK,2
Fhl1	MmuINT0C	chrX:5678	558	chrX:5678	41.69	SOK,SOK,1	46.13	SOK,SOK,1
Msl3	MmuINT01	chrX:16867	1382	chrX:16867	18.28	OK,OK,3.5=	14.63	OK,OK,6.0=
Armcx6	MmuINT1C	chrX:13475	310	chrX:13475	12.78	SOK,SOK,1	15.13	SOK,SOK,1
Rbm10	MmuINT1C	chrX:20641	1487	chrX:20641	30.92	SOK,SOK,1	25.82	SOK,SOK,1
Med12	MmuINT0C	chrX:10127	227	chrX:10127	62.79	SOK,SOK,2	67.27	SOK,SOK,4
Phka1	MmuINT01	chrX:10254	554	chrX:10254	11.46	OK,OK,3.5=	2.11	OK,OK,0.7=
Lonrf3	MmuINT1C	chrX:36341	775	chrX:36341	4.78	OK,OK,0.2=	4.63	OK,OK,0.5=
C230004F1	MmuINT0C	chrX:61122	11206	chrX:61122	54	OK,OK,11.1	59.39	OK,OK,14.1

C230004F1	MmuINT0C	chrX:61133	1217	chrX:61133	60.66	SOK,SOK,2	58.11	SOK,SOK,1
Gk	MmuINT0C	chrX:8573C	5907	chrX:85736	8.11	OK,OK,1.4=	17.56	OK,OK,4.9=
Gk	MmuINT0C	chrX:85712	113	chrX:85712	6.06	OK,OK,6.0=	7.46	OK,OK,5.5=
Zmat1	MmuINT01	chrX:13497	12816	chrX:13499	14.71	OK,OK,6.0=	16	OK,OK,5.8=
Thoc2	MmuINT01	chrX:41822	490	chrX:41823	30.21	SOK,SOK,1	25.56	SOK,SOK,1
Clcn5	MmuINT0C	chrX:71863	2196	chrX:71885	27.27	VLOW,VLO	33.33	VLOW,VLO
Il2rg	MmuINT0C	chrX:10126	454	chrX:10126	10.53	LOW,LOW,	22.22	VLOW,VLO

WT_1	WT_1.Q	WT_2	WT_2.Q	dPSI
66	SOK,SOK,8	68.76	SOK,SOK,8	10.05
15.2	OK,OK,12=	15.54	OK,OK,11=	12.36
44.83	OK,OK,0=3	25	OK,OK,0=1	17.1
3.37	OK,OK,0=3	2.86	OK,OK,0=2	12.17
66.91	SOK,SOK,3	72.34	OK,OK,22=	-11.49
89.47	SOK,SOK,4	92.45	SOK,SOK,4	-12.65
87.5	OK,OK,22=	75	VLOW,VLO	18.75
81.82	SOK,SOK,1	75.58	SOK,SOK,5	11.89
90	LOW,LOW,	81.82	VLOW,VLO	-29.46
76.59	SOK,SOK,8	81.49	OK,OK,49=	-12.26
19.94	SOK,SOK,6	24.15	SOK,SOK,5	11.05
80.07	SOK,SOK,1	66.52	SOK,SOK,6	13.21
91.78	OK,OK,37=	85.19	OK,OK,25=	11.52
47.9	OK,OK,18=	39.13	OK,OK,17=	16.6
98.55	SOK,SOK,6	100	OK,OK,48=	-12.15
77.78	LOW,LOW,	79.49	VLOW,VLO	-21.24
80.18	SOK,SOK,4	94.74	OK,OK,35=	-21.77
31.82	SOK,SOK,7	36.52	SOK,SOK,5	-11.05
94.12	LOW,LOW,	94.74	LOW,LOW,	-14.48
75.69	VLOW,VLO	70.04	VLOW,VLO	-12.19
19.67	OK,OK,10=	17.23	OK,OK,7=4	10.05
79.55	OK,OK,20=	83.72	OK,OK,22=	13.19
96.77	OK,OK,36=	100	OK,OK,23=	-15.55
71.13	SOK,SOK,9	73.53	SOK,SOK,8	15.44
100	LOW,LOW,	100	VLOW,VLO	-10.74
61.99	OK,SOK,50	54.16	OK,OK,38=	21.23
36.05	OK,OK,19=	37.74	LOW,OK,1	15.52
31.82	LOW,LOW,	50.82	LOW,LOW,	-20.21
57.01	SOK,SOK,1	57.42	SOK,SOK,4	-10.66
11.76	OK,OK,3=5	8.7	OK,OK,2=2	-10.23
50.62	SOK,SOK,3	54.39	OK,OK,30=	12.94
84.6	SOK,SOK,2	85.16	OK,SOK,20	-17.22
28.77	OK,SOK,16	31.07	OK,OK,9=8	-19.62
46.46	VLOW,LOW	41.97	LOW,OK,3	-14.52
7.38	OK,OK,7=3	6.37	OK,OK,4=3	11.89
11.11	OK,OK,3=2	16	OK,OK,0=8	-12.57
84.21	OK,OK,27=	80.49	LOW,LOW,	-23.07
81.18	SOK,SOK,4	81.82	SOK,SOK,3	-11.44
97.35	SOK,SOK,7	92.42	SOK,SOK,4	-11.42
80.47	SOK,SOK,2	87.83	OK,SOK,18	13.02
88	OK,OK,22=	87.5	LOW,LOW,	12.25
77.78	OK,OK,16=	77.78	LOW,LOW,	13
57.53	SOK,SOK,3	54	OK,OK,37=	-14.18
70	LOW,LOW,	93.1	LOW,LOW,	18.45

20	OK,OK,8=4	18.37	OK,OK,4=5	16.08
47.91	OK,OK,24=	61.66	OK,OK,16=	17.09
94.52	OK,OK,40=	83.33	OK,OK,28=	11.08
63.05	SOK,SOK,6	73.18	SOK,SOK,4	25
64.15	OK,SOK,17	71.62	OK,SOK,16	13.2
78.18	OK,OK,23=	63.64	OK,OK,15=	21.81
17.24	VLOW,VLO	12.5	VLOW,VLO	-11.93
43.66	OK,OK,9=2	50	VLOW,VLO	-25.35
64.71	SOK,SOK,5	75.49	OK,OK,42=	-33.63
16.13	OK,OK,5=5	14.89	OK,OK,2=5	-13.66
23.81	SOK,SOK,2	31.34	OK,OK,5=1	-13
87.1	VLOW,VLO	71.36	VLOW,VLO	20.77
57.59	SOK,SOK,1	50.57	SOK,SOK,5	11.7
93.05	SOK,SOK,9	86.57	SOK,SOK,5	-11.59
17.89	OK,OK,8=9	22.39	OK,OK,9=6	-15.49
92.31	OK,OK,25=	96.3	OK,OK,28=	-22.34
72.83	SOK,SOK,6	73.08	OK,OK,36=	12.88
83.92	SOK,SOK,8	81.37	SOK,SOK,7	-10.65
74.6	OK,OK,22=	67.74	VLOW,VLO	14.67
43.27	SOK,SOK,0	46.76	SOK,SOK,0	16.23
37.78	VLOW,VLO	48.94	VLOW,VLO	-18.43
21.51	OK,OK,8=2	15.59	OK,OK,7=1	-17.56
36.27	SOK,SOK,5	50.67	SOK,SOK,4	13.8
80.65	SOK,SOK,1	85.11	SOK,SOK,9	12.43
31.12	SOK,SOK,8	26.4	SOK,SOK,6	12.35
6.41	LOW,LOW,	18.9	VLOW,VLO	-12.65
73.33	SOK,SOK,4	67.39	OK,OK,26=	11.16
71.85	SOK,SOK,5	81.2	SOK,SOK,4	-18.42
59.4	OK,OK,36=	62.63	OK,OK,26=	21.86
47.64	SOK,SOK,8	39.7	SOK,SOK,4	17.66
82.61	OK,OK,29=	81.08	OK,OK,25=	-23.64
100	OK,OK,22=	100	VLOW,VLO	-13.02
66.67	SOK,SOK,4	61.06	OK,OK,31=	15.47
93.22	OK,OK,31=	83.33	LOW,LOW,	11.72
80.26	SOK,SOK,5	77.32	OK,OK,28=	12.4
58.28	SOK,SOK,2	47.68	SOK,SOK,3	-11.59
94.87	LOW,LOW,	80	LOW,LOW,	12.56
63.22	OK,OK,40=	52.38	LOW,LOW,	-19.81
87.88	SOK,SOK,6	79.84	SOK,SOK,3	-11.49
65.52	VLOW,VLO	57.14	VLOW,VLO	-34.66
56.04	OK,OK,37=	92.16	OK,OK,28=	-33.37
70.92	SOK,SOK,4	77.64	SOK,SOK,4	12.46
77.78	OK,OK,53=	82.5	OK,OK,45=	-13.27
25.06	OK,OK,1=2	19.87	OK,OK,4=1	10.43
47.73	OK,OK,6=3	52.17	VLOW,VLO	-16.83

93.09	OK,OK,31=	96.13	OK,OK,27=	-10.8
37.5	LOW,LOW,	41.18	VLOW,VLO	-13.07
27.87	OK,OK,3=1	15	LOW,LOW,	-16.04
54.38	OK,OK,23=	45.36	OK,OK,19=	17.32
100	LOW,LOW,	94.59	OK,OK,15=	-16.71
83.33	OK,OK,30=	91.67	OK,OK,21=	-16.42
94.57	SOK,SOK,6	94.32	OK,SOK,45	-15.2
79.05	SOK,SOK,6	79.74	OK,OK,55=	-10.73
7.29	OK,OK,4=2	0	OK,OK,0=0	21.56
17.86	OK,OK,3=1	16.22	OK,OK,2=1	18.9
82.71	OK,OK,42=	73.13	OK,OK,34=	12.33
46.16	SOK,SOK,2	42.49	SOK,SOK,1	-14.63
45.49	SOK,SOK,1	44.47	SOK,SOK,6	10.63
43.28	SOK,SOK,7	36.32	SOK,SOK,3	16.28
68.81	OK,OK,41=	74.19	LOW,LOW,	-19.52
14.65	OK,OK,1=5	0	OK,OK,0=0	18.74
51.86	SOK,SOK,5	60.83	SOK,SOK,4	-13.17
43.04	SOK,SOK,5	39.98	SOK,SOK,2	15.76
70.84	OK,OK,22=	85.35	LOW,LOW,	-20.4
37.25	LOW,LOW,	35.59	LOW,LOW,	-10.97
46.99	SOK,SOK,8	54.11	SOK,SOK,7	12.25
88.73	OK,OK,32=	87.23	OK,OK,40=	10.11
90.88	SOK,SOK,2	91.25	SOK,SOK,1	-10.98
88.39	SOK,SOK,4	95.07	OK,OK,46=	-12.73
7.46	OK,OK,0=5	8.47	OK,OK,0=5	10.18
46.84	OK,OK,2=3	53.48	LOW,LOW,	-19.32
44.3	OK,OK,18=	36	LOW,LOW,	26.3
81.93	SOK,SOK,1	88.41	SOK,SOK,1	-10.26
61.33	SOK,SOK,6	48.28	OK,OK,33=	17.34
61.16	SOK,SOK,7	65.47	SOK,SOK,4	10.04
75.61	OK,OK,23=	72.6	OK,OK,20=	-13.75
81.82	SOK,SOK,5	95.92	OK,OK,25=	-13.92
69.45	SOK,SOK,2	68.59	OK,SOK,31	-15.64
53.85	OK,OK,18=	61.29	LOW,LOW,	-30
75.91	LOW,LOW,	77.26	VLOW,VLO	13.91
66.69	LOW,LOW,	77.22	VLOW,VLO	17.18
60	OK,OK,21=	76.74	LOW,LOW,	20.59
100	LOW,OK,3	100	VLOW,VLO	-11.57
94.51	OK,OK,41=	100	OK,OK,17=	-12.39
95.24	OK,OK,24=	100	VLOW,VLO	-10.03
64.82	SOK,SOK,5	63.67	OK,OK,34=	-16.92
66.17	SOK,SOK,7	71.19	SOK,SOK,5	15.52
84	SOK,SOK,2	81.43	SOK,SOK,1	-10.66
45.09	SOK,SOK,1	49.71	SOK,SOK,1	16.55
57.56	SOK,SOK,1	60	SOK,SOK,1	15.49

53.27	SOK,SOK,6	60.78	SOK,SOK,5	-18.17
62.91	SOK,SOK,2	68.72	OK,OK,20=	12.71
63.18	SOK,SOK,6	65.8	SOK,SOK,4	16.73
21.45	SOK,SOK,4	22.32	OK,OK,25=	-12
44.57	SOK,SOK,4	39.57	OK,OK,26=	-11.82
100	VLOW,VLO	100	VLOW,VLO	-12.18
79.4	SOK,SOK,7	74.16	SOK,SOK,4	-10.03
100	OK,OK,25=	100	OK,OK,19=	-13.28
84.11	OK,OK,38=	91.55	OK,OK,26=	-16.57
19.72	OK,OK,21=	30.45	OK,OK,9=1	-15.85
56.52	OK,OK,56=	47.92	OK,OK,42=	-51.32
55	VLOW,VLO	44.44	LOW,LOW,	-19.55
10.71	OK,OK,5=1	24.14	VLOW,VLO	-12.92
66.04	OK,OK,15=	54.29	OK,OK,15=	17.34
16.56	OK,OK,19=	15.89	OK,OK,7=1	17.33
89.09	SOK,SOK,6	87.69	OK,OK,36=	-13.77
85.57	OK,OK,35=	83.87	OK,OK,19=	-13.79
92.45	SOK,SOK,4	89.83	OK,OK,30=	-12.41
90.83	SOK,SOK,5	92.86	OK,OK,40=	-10.75
68.06	OK,SOK,46	56.41	OK,OK,20=	-20.18
43.72	OK,OK,18=	57.5	OK,OK,24=	21.01
35.23	SOK,SOK,2	35.25	OK,OK,23=	15.68
100	VLOW,VLO	90.91	LOW,LOW,	-11.24
93.41	OK,OK,29=	91.55	OK,OK,37=	-10.32
64.58	OK,OK,24=	61.11	OK,OK,18=	-12.1
100	OK,OK,51=	96.85	OK,OK,33=	-13.15
98.35	SOK,SOK,4	91.39	OK,OK,25=	-14.17
95.83	OK,OK,16=	95.35	OK,OK,20=	-27.11
91.67	OK,OK,26=	87.3	OK,OK,28=	10.52
89.47	LOW,LOW,	80	VLOW,VLO	15.27
49.18	OK,OK,52=	55.84	LOW,LOW,	-17.89
79.84	SOK,SOK,4	71.15	OK,OK,44=	16.78
68.82	SOK,SOK,9	57	SOK,SOK,8	-20.33
51.98	OK,SOK,20	62.27	LOW,LOW,	-16.72
27.62	SOK,SOK,3	32.45	SOK,SOK,3	-11.48
84.91	OK,OK,29=	88.1	OK,OK,38=	10.18
34.34	SOK,SOK,6	32.06	SOK,SOK,3	12.8
68.66	OK,OK,22=	67.74	OK,OK,16=	14.64
76.47	OK,OK,18=	64	LOW,LOW,	13.43
57.89	LOW,LOW,	45.45	LOW,LOW,	18.36
23.08	OK,OK,2=1	17.95	LOW,LOW,	-13.81
69.7	OK,OK,28=	70.79	OK,OK,37=	-15.87
95.47	SOK,SOK,5	84.49	LOW,LOW,	-11.69
93.22	OK,OK,33=	100	VLOW,VLO	-20.14
100	OK,OK,48=	100	OK,OK,34=	-10.41

87.13	OK,OK,35=	93.44	LOW,LOW,	-10.1
94.03	OK,OK,19=	100	LOW,LOW,	-16.48
75.93	OK,OK,35=	72.98	OK,OK,23=	-15.59
100	OK,OK,25=	100	OK,OK,17=	-10.35
30.54	SOK,SOK,3	34.02	OK,OK,20=	-11.64
69.78	OK,OK,21=	69.33	OK,OK,16=	-13.6
4.76	OK,OK,5=0	8.33	OK,OK,4=0	12.97
66.67	LOW,LOW,	72.22	LOW,LOW,	23.54
71.43	OK,OK,15=	69.7	VLOW,VLO	21.56
55.56	VLOW,VLO	49.15	LOW,LOW,	-15.47
92	SOK,SOK,5	95.96	OK,OK,38=	-14.84
69.38	SOK,SOK,5	69.23	OK,OK,27=	-11.89
43.89	VLOW,VLO	47.34	VLOW,VLO	-21.91
91.52	LOW,LOW,	100	LOW,LOW,	-22.12
65.54	LOW,LOW,	82.17	LOW,LOW,	-26.87
69.23	SOK,SOK,3	70.03	OK,OK,21=	-13.77
48.03	OK,OK,34=	56.82	OK,OK,23=	-15.77
97.91	SOK,SOK,1	94.74	SOK,SOK,6	-10.3
78.95	LOW,LOW,	82.86	LOW,LOW,	16.87
78.91	SOK,SOK,8	77.65	SOK,SOK,6	-12.44
77.97	SOK,SOK,1	81.48	SOK,SOK,9	10.2
15.96	SOK,SOK,1	27.78	OK,OK,6=2	-14.79
42.59	OK,OK,26=	41.57	OK,OK,21=	-13.82
75.22	SOK,SOK,2	73.35	SOK,SOK,1	-12.77
49.13	VLOW,VLO	30.2	VLOW,VLO	-20.4
34.09	OK,OK,16=	38.46	OK,OK,23=	-12.3
54.47	OK,OK,31=	56.43	LOW,LOW,	-11.93
53.04	OK,OK,15=	61.64	LOW,LOW,	-17.9
53.38	SOK,SOK,7	64.45	VLOW,VLO	-11.83
72.17	SOK,SOK,1	83.6	VLOW,VLO	-15.79
48.94	VLOW,VLO	38.46	VLOW,VLO	-20.05
54.84	SOK,SOK,6	51.32	SOK,SOK,5	14.91
62.53	SOK,SOK,3	67.59	OK,OK,30=	-20.09
87.88	OK,OK,29=	86.89	OK,OK,23=	10.84
82.5	OK,OK,25=	81.82	VLOW,VLO	-11.21
22.86	OK,OK,0=1	23.4	LOW,OK,0=	17.75
64.06	SOK,SOK,3	60.24	SOK,SOK,1	10.85
67.39	OK,OK,38=	69.57	LOW,LOW,	13.54
100	LOW,LOW,	92.86	OK,OK,18=	-13.8
100	OK,OK,25=	100	LOW,OK,1	-10.5
12.75	SOK,SOK,2	21.09	SOK,SOK,3	12.2
97.37	OK,OK,25=	100	LOW,LOW,	-10.46
83.38	OK,OK,35=	86.83	LOW,LOW,	12.07
42.86	SOK,SOK,2	44.77	SOK,SOK,1	-12.65
43.59	OK,OK,0=5	54.22	LOW,LOW,	-20.8

20.99	OK,OK,7=1	23.81	LOW,LOW,	-12.76
61.02	OK,OK,28=	60.56	OK,OK,18=	16.43
30.26	SOK,SOK,2	35.71	OK,OK,19=	-11.2
94.29	SOK,SOK,3	93.18	OK,OK,40=	-11.34
26.56	OK,OK,18=	23.64	OK,OK,8=5	-14.72
75.23	SOK,SOK,4	74.65	OK,OK,32=	11.1
58.73	LOW,LOW,	68.89	LOW,LOW,	-25.35
53.52	SOK,SOK,2	51.11	OK,OK,20=	10.57
35.24	OK,OK,17=	34.23	OK,OK,13=	-10.19
95.65	OK,OK,38=	96	OK,OK,27=	-13.88
98.61	SOK,SOK,7	92.31	OK,OK,49=	-16.25
39.29	LOW,LOW,	42.03	OK,OK,0=2	10.2
34.45	OK,OK,0=4	35.77	OK,OK,5=4	-19.56
65.59	SOK,SOK,1	60.91	SOK,SOK,6	10.13
89.95	OK,OK,41=	86.06	OK,OK,34=	-12.43
96.6	VLOW,VLO	100	OK,OK,18=	-11.33
70.83	SOK,SOK,3	72.69	SOK,SOK,2	12.21
100	LOW,LOW,	92.39	LOW,LOW,	-18.08
100	VLOW,VLO	92.39	LOW,LOW,	-26.21
15.79	LOW,LOW,	8.7	OK,OK,1=3	11.06
61.57	VLOW,VLO	88.27	VLOW,VLO	25.08
80.28	SOK,SOK,6	83.49	SOK,SOK,4	16.28
82.61	SOK,SOK,4	87.83	SOK,SOK,4	13.04
81.46	OK,OK,35=	87.55	OK,OK,21=	10.7
67.21	OK,OK,20=	66.67	VLOW,VLO	21.52
95.56	OK,OK,25=	91.3	VLOW,VLO	-10.96
20.14	SOK,SOK,2	23.18	OK,SOK,18	-11.65
24.84	SOK,SOK,2	27.19	SOK,SOK,1	-17.31
26.48	SOK,SOK,3	27.85	SOK,SOK,3	-13.43
25.37	SOK,SOK,3	29.26	SOK,SOK,2	-11.3
28.34	SOK,SOK,3	26.68	SOK,SOK,3	-13.24
55.56	LOW,LOW,	55.56	VLOW,VLO	-12.75
68.51	SOK,SOK,8	72.93	SOK,SOK,5	-10.59
74.65	SOK,SOK,6	75.51	SOK,SOK,5	-14.82
35.29	OK,OK,7=1	20	OK,OK,0=1	15.29
33.33	OK,OK,33=	42.86	VLOW,VLO	-12.09
6.02	OK,OK,3=2	5.88	OK,OK,0=3	13.65
31.25	OK,OK,8=0	38.46	LOW,LOW,	-21.14
89.66	SOK,SOK,4	89.09	SOK,SOK,1	-13.1
47.17	OK,OK,4=4	58.33	VLOW,VLO	-14.19
55.93	OK,OK,22=	52.46	LOW,LOW,	15.02
51.69	LOW,LOW,	53.53	LOW,LOW,	12.55
100	LOW,LOW,	96.49	OK,OK,27=	-10.29
60.85	OK,OK,26=	77.78	OK,OK,34=	22.13
40.85	OK,OK,15=	39.39	VLOW,VLO	24.21

35.42	OK,OK,16=	38.89	OK,OK,13=	-13.28
45.71	OK,OK,23=	54.73	VLOW,VLO	-16.52
88.89	OK,OK,31=	79.92	OK,OK,18=	13
97.23	OK,OK,31=	94.46	OK,OK,26=	-12.43
75.85	SOK,SOK,4	75.44	SOK,SOK,2	-15.12
30.32	OK,OK,9=1	25.71	VLOW,VLO	-16.82
93.75	LOW,LOW,	78.38	LOW,LOW,	13.94
81.82	SOK,SOK,6	84.42	LOW,LOW,	-14.87
91.67	SOK,SOK,6	88.06	SOK,SOK,4	-15.32
100	VLOW,VLO	100	LOW,LOW,	-15.02
100	VLOW,VLO	100	LOW,LOW,	-16.61
46.9	OK,OK,28=	48.57	OK,OK,29=	12.82
67.39	SOK,SOK,5	63.64	OK,OK,21=	12.1
19.51	OK,OK,16=	20.59	OK,OK,14=	-16.32
62.96	OK,OK,25=	69.57	LOW,LOW,	-15.1
20	OK,OK,5=7	15.38	VLOW,VLO	-10.02
92.7	VLOW,VLO	91.41	VLOW,VLO	-21.93
50	OK,OK,46=	59.62	OK,OK,44=	-20.43
68.72	OK,OK,27=	46.62	OK,OK,25=	17.53
82.72	OK,OK,27=	94.87	LOW,LOW,	-22.28
72.17	OK,OK,37=	68.54	OK,OK,22=	12.72
23.53	OK,OK,23=	20.05	OK,OK,18=	-17.44
57.41	OK,OK,20=	58.21	OK,OK,15=	20.1
47.76	VLOW,VLO	42.86	VLOW,VLO	18.92
54.79	LOW,LOW,	55.56	LOW,LOW,	11.27
61.84	OK,OK,27=	58.58	OK,OK,21=	-11.35
54.26	LOW,LOW,	64.35	VLOW,VLO	22.9
83.19	LOW,LOW,	78.95	VLOW,VLO	18.93
55.13	OK,OK,26=	94.77	LOW,LOW,	-36.53
53.96	SOK,SOK,8	56.95	OK,OK,51=	-12.57
89.09	OK,OK,29=	100	OK,OK,16=	-22.37
34.05	SOK,SOK,2	39.07	OK,OK,19=	-12.21
43.77	OK,OK,6=8	55.69	LOW,LOW,	-31.25
56.11	SOK,SOK,1	48.9	SOK,SOK,6	14.09
85.08	SOK,SOK,6	82.02	OK,OK,47=	13.05
13.93	SOK,SOK,1	12	OK,OK,4=1	12.19
80.53	SOK,SOK,3	70.41	SOK,SOK,2	20.3
27.27	OK,OK,5=1	37.5	VLOW,VLO	-15.36
100	LOW,LOW,	100	VLOW,VLO	-11.19
100	OK,OK,26=	91.42	OK,OK,22=	-12.31
58.23	SOK,SOK,6	65.22	SOK,SOK,5	-12.28
67.99	SOK,SOK,1	67.23	SOK,SOK,6	-10.45
100	OK,OK,46=	100	VLOW,VLO	-13.04
78.64	SOK,SOK,1	82.47	SOK,SOK,8	-10.08
46.88	LOW,LOW,	37.5	LOW,LOW,	-21.73

80.2	SOK,SOK,5	77.49	OK,OK,24=	11.16
83.81	SOK,SOK,1	88.51	SOK,SOK,1	10.59
53.52	SOK,SOK,9	51.42	SOK,SOK,5	14.75
89.83	OK,OK,44=	89.83	LOW,LOW,	10.17
90.86	OK,OK,19=	93.02	LOW,LOW,	-17.9
43.44	OK,OK,13=	32.7	OK,OK,5=1	-14.58
72.32	SOK,SOK,4	77.43	SOK,SOK,3	-13.16
74.33	SOK,SOK,5	69.84	OK,SOK,40	11.8
69.35	SOK,SOK,6	77.46	OK,OK,31=	13.02
94.81	LOW,LOW,	100	LOW,LOW,	-16.93
93.06	SOK,SOK,6	96.15	SOK,SOK,4	-11.47
88.53	VLOW,VLO	71.95	VLOW,VLO	19.76
91.86	SOK,SOK,7	93.83	SOK,SOK,4	-10.03
76.95	VLOW,VLO	76.93	VLOW,VLO	10.53
22.68	VLOW,VLO	8.85	VLOW,VLO	-15.77
76.27	SOK,SOK,1	77.97	SOK,SOK,1	-11.76
66.74	OK,OK,21=	63.23	VLOW,VLO	16.46
100	OK,OK,17=	100	OK,OK,15=	-12.03
87	SOK,SOK,8	87.93	OK,SOK,47	-11.13
90	LOW,LOW,	72.73	VLOW,VLO	18.63
49.8	SOK,SOK,3	49.94	SOK,SOK,1	12.73
17.24	VLOW,VLO	8.33	VLOW,VLO	-12.79
100	LOW,LOW,	100	VLOW,VLO	-20.7
89.73	OK,OK,29=	88	OK,OK,31=	11.13
51.68	SOK,SOK,3	53.25	OK,OK,17=	-11.95
33.02	OK,SOK,0=	35.93	OK,OK,0=5	11.75
82.11	SOK,SOK,5	86.41	OK,OK,51=	-12.74
78.24	OK,SOK,37	67.53	OK,OK,16=	-12.13
100	SOK,SOK,4	100	OK,OK,32=	-10.52
46.11	OK,OK,15=	44.92	LOW,OK,1	-10.93
36.31	SOK,SOK,8	35.4	OK,SOK,42	-17.74
22.22	OK,OK,0=8	21.99	OK,OK,0=4	-13.3
75.04	SOK,SOK,1	73.84	LOW,LOW,	-17.8
58.59	SOK,SOK,8	52.83	SOK,SOK,5	10.14
87.87	OK,OK,37=	68.02	LOW,LOW,	18.53
75.15	OK,OK,23=	85.3	LOW,OK,1	19.78
32.52	OK,OK,12=	29.64	VLOW,VLO	11.62
68.01	OK,OK,22=	75.29	OK,OK,29=	16.99
54.1	VLOW,VLO	54.17	VLOW,VLO	-21.68
69.42	SOK,SOK,1	61.86	SOK,SOK,1	10.8
43.44	OK,OK,29=	50.09	OK,OK,11=	13.71
31.71	OK,OK,16=	33.33	OK,OK,12=	13.88
69.15	OK,OK,26=	71.54	OK,OK,25=	17.97
90.95	OK,OK,33=	91.42	OK,OK,28=	-18.53
74.16	OK,OK,5=2	80.65	LOW,OK,1	-26.33

96.42	OK,OK,67=	96.37	OK,OK,44=	-12.3
1.78	SOK,SOK,5	0.72	OK,SOK,1=	15.02
73.16	LOW,SOK,1	61.71	LOW,SOK,9	17.39
66.48	OK,SOK,10	83.11	OK,SOK,10	24.22
66.86	LOW,SOK,1	69.88	LOW,SOK,1	13.07
75.71	LOW,OK,92	77.28	LOW,OK,10	11.8
43.62	OK,OK,59.0	36.91	OK,OK,67.8	18.42
55	SOK,SOK,9	55.13	OK,OK,100	11.57
84.33	OK,OK,100	92.31	LOW,LOW,	10.66
25.76	OK,OK,100	21.88	LOW,LOW,	13.3
8.59	SOK,SOK,10	7.59	OK,OK,100	13.5
87.17	SOK,SOK,10	85.41	SOK,SOK,99	10.33
20.51	OK,SOK,10	14.67	LOW,OK,97	27.17
65.92	OK,OK,95.6	56.73	OK,OK,90.4	18.57
56.74	SOK,SOK,10	64.32	OK,SOK,99	10.65
82.39	LOW,LOW,	84.61	LOW,LOW,	13.26
13.45	SOK,SOK,10	15.52	OK,OK,100	10.32
20	OK,OK,100	23.26	OK,OK,100	14.71
38.55	OK,OK,100	36.36	OK,OK,100	17.64
81.82	OK,OK,100	85.45	OK,OK,100	11.18
3.85	OK,OK,74.2	7.69	LOW,LOW,	12.59
29.73	OK,SOK,10	23.08	OK,SOK,10	11.19
30.3	SOK,SOK,10	20.63	OK,OK,100	17.15
85.71	OK,OK,100	80.95	OK,OK,100	15.36
75	OK,OK,100	71.43	OK,OK,100	20.12
82.22	OK,OK,100	83.72	OK,OK,100	10.75
80.45	OK,OK,100	87.74	OK,OK,100	11.36
0	OK,OK,100	0	OK,OK,100	10.21
56.41	SOK,SOK,10	55.44	OK,OK,100	12.09
12.42	SOK,SOK,10	11.7	OK,OK,98.9	13.33
79.6	OK,OK,82.3	73.54	OK,OK,76.6	10.9
80.6	OK,OK,100	83.33	OK,OK,100	13.01
23.81	OK,OK,100	36.36	LOW,LOW,	28.94
90.72	OK,OK,100	85.37	LOW,LOW,	11.95
0	LOW,LOW,	0	VLOW,VLO	24.04
65.71	LOW,OK,94	69.57	VLOW,LOW	11.42
81.73	OK,OK,93.9	74.25	OK,OK,98.5	22.01
1.95	OK,OK,100	2.63	OK,OK,100	11.27
65.12	OK,OK,100	67.16	OK,OK,100	30.78
53.18	SOK,SOK,99	51.78	OK,OK,100	17.4
67.37	SOK,SOK,89	66.44	SOK,SOK,95	11.8
71.86	OK,OK,100	67.68	OK,OK,100	10.89
0	SOK,SOK,79	0	SOK,SOK,82	12.16
0	VLOW,VLO	2.7	LOW,LOW,	17.24
4.8	SOK,SOK,98	1.74	OK,OK,100	11.44

69.68	OK,OK,100	71.31	OK,OK,100	14.72
65.29	SOK,SOK,1(	64.86	OK,OK,100	11.23
55.01	SOK,SOK,9	56.38	OK,SOK,10	15.25
41.29	SOK,SOK,1(	41.1	SOK,SOK,1(	11.91
25	OK,OK,100	29.09	OK,OK,100	11.79
80	OK,OK,97.8	87.49	OK,OK,100	12.41
79.59	OK,OK,100	73.08	LOW,LOW,	16.01
62.96	OK,OK,100	60	OK,OK,100	19.58
87.1	LOW,LOW,	75.61	OK,OK,100	16.73
25	OK,OK,100	13.64	VLOW,VLO	19.18
6.71	OK,OK,100	5.52	LOW,LOW,	11.24
44.35	LOW,OK,1(	34.38	LOW,LOW,	13.97
70.31	LOW,SOK,9	59.51	VLOW,SOK	19.47
78.33	SOK,SOK,98	78.69	SOK,SOK,1(	10.57
47.74	OK,OK,100	27.4	OK,OK,100	21.51
85.58	OK,OK,74.3	82.34	LOW,LOW,	14.79
88.24	VLOW,VLO	70.59	VLOW,VLO	20.59
86.84	SOK,SOK,1(	88.37	OK,OK,100	10.02
63.87	VLOW,VLO	48.84	VLOW,VLO	22.89
62.16	LOW,LOW,	56.1	OK,OK,100	13.85
14	OK,OK,94.9	5.88	LOW,LOW,	11.83
65.4	SOK,SOK,83	92.6	OK,SOK,84	21
65.29	SOK,SOK,9	57.32	OK,OK,98.8	14.97
59.78	SOK,SOK,1(	64.02	SOK,SOK,1(	10.07
22.22	VLOW,VLO	15.74	LOW,LOW,	14.89
54.17	OK,OK,100	56.16	OK,OK,100	14.12
1.32	OK,OK,100	2.82	OK,OK,100	11.12
70.83	VLOW,SOK	66.67	VLOW,SOK	14.25
0	LOW,LOW,	0	VLOW,VLO	11.2
93.5	SOK,SOK,1(	71.99	SOK,SOK,1(	17.25
69.39	OK,SOK,98	74.24	OK,OK,94.2	13.6
77.43	OK,OK,98.4	74.09	LOW,LOW,	14.21
30.34	SOK,SOK,1(	30.86	OK,SOK,99	13.16
0	LOW,LOW,	0	VLOW,VLO	14.32
11.11	VLOW,VLO	13.33	VLOW,VLO	15.82
92.91	OK,OK,95.3	81.06	VLOW,VLO	13.02
70.99	LOW,LOW,	40.72	VLOW,VLO	26.79
57.14	VLOW,VLO	45.45	VLOW,VLO	29.54
21.06	OK,OK,100	27.5	OK,OK,100	11.83
59.28	SOK,SOK,1(	68.28	OK,OK,100	14.66
8.19	OK,SOK,10	11.59	OK,OK,100	12.99
4.44	OK,OK,76.9	0	LOW,LOW,	14.3
86	OK,OK,100	86.96	VLOW,VLO	13.52
69.93	SOK,SOK,7	70.99	OK,OK,62.9	11.1
24.79	OK,OK,94.0	25.18	OK,OK,92.9	15.72

70.52	OK,OK,100	58.21	LOW,LOW,	26.47
57.77	OK,OK,100	62.32	LOW,LOW,	10.76
69.67	SOK,SOK,9	71.11	OK,OK,100	12.55
84.11	OK,OK,100	94.44	LOW,LOW,	10.72
36.84	LOW,OK,1	48.57	LOW,OK,1	25.78
55.71	OK,OK,91.6	62.13	VLOW,VLO	16.29
26.28	OK,OK,100	37.08	LOW,LOW,	18.18
41.72	SOK,SOK,9	35.72	SOK,SOK,1	12.76
45.45	OK,OK,100	47.06	LOW,OK,1	13.67
81.08	LOW,LOW,	77.42	LOW,LOW,	10.15
29.11	OK,OK,100	31.71	OK,OK,100	14.78
69.29	OK,OK,97.5	60.62	VLOW,VLO	19.68
18.92	LOW,LOW,	13.04	VLOW,VLO	10.41
77.98	SOK,SOK,1	85.37	OK,OK,98.7	13.47
0	OK,OK,98.3	0	LOW,OK,1	10.44
40.79	OK,OK,100	35.97	OK,OK,100	15.76
77.68	SOK,SOK,1	80.65	OK,OK,100	10.84
6.42	OK,OK,96.5	6.08	OK,OK,96.3	13.17
65.26	OK,OK,100	66.88	OK,OK,100	10.93
13.33	OK,SOK,96	10.94	OK,OK,96.7	13.35
83.21	OK,OK,98.1	87.93	LOW,LOW,	10.22
2.16	OK,OK,66.2	7.04	LOW,LOW,	15.38
0	LOW,LOW,	12.83	VLOW,VLO	14.06
79.41	LOW,LOW,	69.57	VLOW,VLO	18.85
25.95	SOK,SOK,1	27.73	SOK,SOK,1	10
0	LOW,LOW,	0	LOW,LOW,	14.21
76.19	OK,OK,100	61.76	LOW,LOW,	22.84
63.16	OK,OK,80.2	70.37	OK,OK,75.0	11.15
81.71	OK,OK,78.5	79.53	LOW,LOW,	15.7
10.94	OK,OK,100	13.85	OK,OK,100	10.48
14.14	LOW,LOW,	14.64	VLOW,VLO	10.85
41.67	OK,OK,100	48.89	OK,OK,100	17.07
57.17	SOK,SOK,1	44.83	OK,SOK,10	19.84
23.19	OK,OK,100	7.62	LOW,LOW,	19.78
12.43	VLOW,VLO	54.71	VLOW,LOW	31.82
25	LOW,LOW,	40.91	VLOW,VLO	21.46
27.22	SOK,SOK,1	2.53	SOK,SOK,1	36.07
63.83	OK,OK,83.9	69.23	LOW,LOW,	11.88
6.06	SOK,SOK,1	13.71	SOK,SOK,9	22.87
18.18	VLOW,VLO	5.88	VLOW,VLO	20.27
41.96	SOK,SOK,7	34.81	SOK,SOK,8	10.82
75	LOW,LOW,	84	LOW,LOW,	16.03
11.39	OK,SOK,87	11.86	OK,OK,92.6	12.09
73.43	LOW,SOK,9	61.71	LOW,SOK,9	17.26
32.72	SOK,SOK,1	26.07	SOK,SOK,1	17.14

66.76	OK,SOK,10	83.38	OK,SOK,10	24.93
89.85	OK,OK,66.3	84.99	LOW,LOW,	10.02
83.78	OK,OK,100	82.22	OK,OK,100	11.16
15.09	OK,OK,100	4.65	OK,OK,100	14.11
77.78	OK,OK,81.1	80	OK,OK,73.5	12.08
51.47	OK,SOK,10	57.08	LOW,OK,1	30.31
15.27	LOW,OK,97	15.52	LOW,LOW,	10.03
10.01	OK,OK,100	3.12	LOW,LOW,	16.45
61.36	OK,OK,60.5	59.86	LOW,LOW,	10.21
30.09	SOK,SOK,1	36.43	SOK,SOK,1	21.11
27.07	SOK,SOK,1	26.44	OK,OK,100	11.86
29.73	OK,SOK,10	23.08	OK,SOK,10	11.19
11.73	SOK,SOK,9	10.19	OK,OK,94.0	10.54
6.03	OK,OK,100	1.92	OK,OK,100	13.43
66.67	VLOW,VLO	77.27	VLOW,VLO	22.76
91.27	OK,OK,100	88.05	OK,OK,97.8	10.34
75.34	OK,OK,100	75.84	OK,OK,100	10.16
35.23	OK,OK,100	36.9	OK,OK,100	12.46
72.8	LOW,LOW,	87.28	VLOW,VLO	14.15
2.45	OK,OK,100	3.85	LOW,LOW,	11.44
54.55	VLOW,VLO	32.65	VLOW,VLO	25.15
49.93	SOK,SOK,9	56.45	SOK,SOK,9	10.85
14.29	VLOW,VLO	33.33	VLOW,VLO	31.19
8.22	OK,OK,100	15.18	OK,OK,100	16.03
78.13	OK,OK,100	83.1	OK,OK,100	10.47
70.59	OK,OK,68.6	75	LOW,LOW,	15.01
41.51	OK,OK,100	47.17	OK,OK,100	29.66
58.15	SOK,SOK,1	56.87	OK,SOK,10	13.14
62.71	OK,OK,100	67.44	OK,OK,100	14.4
26.33	OK,OK,100	20.3	LOW,LOW,	15.38
10	OK,OK,100	9.09	VLOW,VLO	10.56
55.22	SOK,SOK,1	56.63	OK,SOK,10	15.25
70.32	LOW,OK,94	77.6	LOW,LOW,	10.73
81.33	SOK,SOK,9	85.45	SOK,SOK,9	10.14
63.24	OK,OK,100	65.08	OK,OK,100	14.99
21.07	OK,OK,84.8	37.14	LOW,LOW,	18.98
28.81	OK,OK,100	26.83	OK,OK,100	16.88
0	SOK,SOK,1	0	SOK,SOK,1	10.73
60.18	SOK,SOK,1	48.14	SOK,SOK,1	14.59
23.2	LOW,LOW,	25.84	VLOW,VLO	25.12
44.52	OK,OK,100	41.13	VLOW,VLO	21.88
78.36	SOK,SOK,9	89.64	SOK,SOK,9	16
75.89	OK,OK,100	77.87	LOW,LOW,	15.4
46.03	OK,OK,100	45.71	LOW,LOW,	10.58
68.62	OK,SOK,99	58.48	VLOW,SOK	19.74

25.24	LOW,LOW,	19.31	LOW,OK,37	11.35
61.11	LOW,LOW,	57.14	LOW,LOW,	13.75
76.64	OK,OK,100	75	OK,OK,100	13.04
67.27	OK,OK,100	66.04	VLOW,VLO	29.4
82.86	LOW,LOW,	77.78	LOW,LOW,	11.88
79.76	OK,OK,100	87.5	OK,OK,100	10.98
5.26	LOW,LOW,	7.69	LOW,LOW,	10.32
16.67	OK,OK,100	3.33	LOW,LOW,	23.52
45	OK,OK,71.4	35.42	OK,OK,71.6	24.03
73.21	SOK,SOK,99	73.53	OK,OK,100	11.22
70.83	VLOW,SOK	66.67	VLOW,SOK	14.25
34.12	OK,OK,100	18.75	OK,OK,100	13.09
43.99	OK,OK,100	33.23	LOW,LOW,	21.15
1.96	OK,OK,100	15.69	OK,OK,100	13.37
85.42	SOK,SOK,88	75.52	OK,OK,76.2	11.75
69.44	OK,OK,100	66.33	VLOW,VLO	17.09
52.38	VLOW,VLO	40.91	VLOW,VLO	34.2
43.53	OK,OK,100	42.55	OK,OK,100	13.43
71.43	LOW,LOW,	68.42	VLOW,VLO	17.66
0	VLOW,VLO	0	VLOW,VLO	23.93
21.59	OK,OK,100	16.62	OK,OK,100	17.77
0	VLOW,VLO	6.25	VLOW,VLO	23.38
12.5	SOK,SOK,10	13.24	OK,OK,100	15.28
75.84	SOK,SOK,98	78.43	SOK,SOK,10	10.56
55.56	VLOW,VLO	47.83	VLOW,VLO	13.74
37.69	OK,OK,36.8	23.73	OK,OK,30.9	16.24
0	LOW,LOW,	3.45	LOW,LOW,	10.16
7.55	OK,OK,100	0	LOW,LOW,	12.3
54.08	OK,OK,51.6	33.88	OK,OK,44.7	21.83
15.53	SOK,SOK,10	17.46	OK,OK,100	18.48
75.76	OK,OK,100	76.57	OK,OK,100	11.44
21.84	SOK,SOK,10	19.31	SOK,SOK,10	11.42
46.92	VLOW,VLO	53.08	LOW,LOW,	18.78
28.28	SOK,SOK,10	27.4	SOK,SOK,10	10.72
68.75	LOW,LOW,	69.23	LOW,LOW,	17.08
41.51	OK,OK,100	29.17	VLOW,VLO	16.58
0	LOW,LOW,	2.78	LOW,LOW,	12.61
10.15	LOW,LOW,	13.08	VLOW,VLO	11.97
4.93	OK,OK,100	8.69	OK,OK,100	10.55
77.78	OK,OK,100	69.62	OK,OK,100	10.93
76.6	OK,OK,94.0	72.73	LOW,LOW,	17.25
45.19	SOK,SOK,91	32.88	OK,OK,96.0	13.2
28.99	OK,OK,100	35.29	VLOW,VLO	15.36
73.11	OK,OK,97.8	64.85	OK,OK,83.2	19.82
28.75	OK,OK,100	35.71	OK,OK,100	22.27

73.95	SOK,SOK,9	61.13	OK,SOK,96	24.3
35.74	SOK,SOK,9	36.16	SOK,SOK,1	13.91
66.85	OK,OK,100	63.61	VLOW,VLO	15.91
21.32	OK,OK,100	28.51	LOW,LOW,	32.06
6.02	OK,OK,98.8	6.9	LOW,LOW,	15.47
32.78	OK,OK,100	35.34	LOW,LOW,	17.08
69.7	OK,OK,100	75.74	VLOW,LOW	13.37
38.98	SOK,SOK,9	35.63	OK,OK,92.5	15.53
39.66	LOW,OK,1	34.38	VLOW,LOW	25.5
0	LOW,LOW,	0	VLOW,VLO	10.54
60.71	OK,SOK,10	61.09	OK,OK,100	11.07
85.83	SOK,SOK,9	86.67	OK,OK,92.7	10.9
18.33	OK,OK,100	19.13	VLOW,VLO	11.04
50	VLOW,VLO	35.29	VLOW,VLO	26.7
8.11	OK,OK,100	5.36	OK,OK,100	17.31
52.26	OK,SOK,99	53.43	OK,SOK,10	13.5
2.49	OK,OK,97.9	2.42	LOW,OK,95	15.21
46.34	OK,OK,100	45.71	LOW,LOW,	20.47
72.13	OK,OK,100	77.33	LOW,LOW,	25.27
5.14	OK,OK,100	3.67	LOW,LOW,	14.46
26.65	SOK,SOK,9	2.18	SOK,SOK,1	35.59
16	LOW,LOW,	0	VLOW,VLO	28.38
31.25	LOW,LOW,	10.34	LOW,LOW,	19.36
91.12	VLOW,VLO	81.69	VLOW,VLO	13.59
49.69	SOK,SOK,3	62.75	OK,OK,29=	-12.66
42.29	SOK,SOK,1	45.21	SOK,SOK,1	-11.84
30.97	SOK,SOK,2	24.36	OK,OK,18=	18.06
14.29	LOW,LOW,	12.2	LOW,LOW,	-11.24
22.99	OK,OK,3=6	10.49	OK,OK,5=1	22.4
85.83	SOK,SOK,1	86.26	SOK,SOK,9	-12.96
82.59	LOW,LOW,	91.54	VLOW,VLO	12.94
43.8	SOK,SOK,4	38.23	SOK,SOK,1	-10.54
60.75	OK,OK,15.2	73.68	VLOW,VLO	-30.94
34.44	OK,OK,11.3	29.27	OK,OK,4.9=	-17.31
17.71	SOK,SOK,6.	17.3	OK,OK,4.9=	-10.76
40.37	SOK,SOK,2	41.99	SOK,SOK,1	-16.19
30.59	SOK,SOK,3	33.97	SOK,SOK,2	-12.1
26.93	SOK,SOK,2	23.2	SOK,SOK,1	-12.99
9.91	OK,OK,0.0=	14.55	OK,OK,0.0=	-11.97
22.71	SOK,SOK,1	26.19	SOK,SOK,1	-12.24
59.99	SOK,SOK,2	73.45	VLOW,VLO	-18.49
79.02	OK,OK,10.2	87.57	VLOW,VLO	-19.78
48.25	SOK,SOK,3	49.13	SOK,SOK,2	-13.14
39.39	SOK,SOK,1	30.69	SOK,SOK,8	-21.11
33.01	SOK,SOK,1	34.81	OK,OK,7.7=	-15.29

37.14	OK,OK,8.8=	24.95	OK,OK,4.4=	-13.84
19.21	OK,OK,6.0=	19.42	OK,OK,1.2=	-12.46
40	LOW,LOW,	35.14	VLOW,VLO	-17.01
84.51	OK,OK,18.1	87.57	OK,OK,9.0=	-24.78
51.78	SOK,SOK,2	52.92	OK,OK,12.5	-19.49
20.13	OK,OK,0.2=	17.23	VLOW,VLO	-11.21
77.42	OK,OK,7.7=	58.97	VLOW,VLO	24.93
33.6	SOK,SOK,1	35.1	SOK,SOK,8.	-10.31
41.51	SOK,SOK,5	41.37	SOK,SOK,4	-10.78
4.76	OK,OK,0.2=	4.35	OK,OK,0.5=	10.86
20.36	OK,OK,3.9=	25.91	OK,OK,3.7=	-11.4
49.92	OK,OK,1.2=	47.58	OK,OK,1.4=	-17.68
1.64	OK,OK,0.8=	6.12	OK,OK,3.3=	10.42
33.13	SOK,SOK,2	38.46	SOK,SOK,1	-15.23
44.6	SOK,SOK,5	40.05	SOK,SOK,4	-13.06
20	LOW,LOW,	12.82	LOW,LOW,	15.97
53.69	SOK,SOK,7.	51.25	LOW,LOW,	-24.97
27.06	SOK,SOK,4	32.35	SOK,SOK,3	-11.37
76.4	OK,OK,37.4	72.5	LOW,LOW,	-15.15
34.55	OK,OK,15.7	26.09	OK,OK,10.1	-10.26
23.33	OK,OK,2.8=	21.74	LOW,LOW,	-10.46
37.04	OK,OK,10.9	32.76	OK,OK,4.9=	-14.21
21.43	OK,OK,1.2=	7.69	OK,OK,0.5=	-14.56
4.76	VLOW,VLO	0	VLOW,VLO	10.29
40.14	OK,OK,7.4=	33.64	LOW,LOW,	-21.56
62.33	SOK,SOK,1	65.64	OK,OK,12.3	-24.97
43.9	OK,OK,4.4=	50	VLOW,VLO	-24.52
19.07	SOK,SOK,0.	25	OK,OK,0.7=	-11.13
23.99	OK,SOK,45	20.66	OK,OK,39.8	-10.89
43.8	SOK,SOK,1	34.39	SOK,SOK,4.	-13.71
16.32	OK,OK,26.9	18.31	VLOW,LOW	-12.79
22.22	VLOW,VLO	5.56	LOW,LOW,	17.29
39.68	SOK,SOK,1	30.88	OK,OK,7.4=	-13.27
27.79	SOK,SOK,1	27.94	OK,OK,10.2	-10.55
42.1	OK,OK,9.7=	32.34	OK,OK,6.0=	-18.7
18.33	OK,OK,2.8=	14.41	OK,OK,3.5=	-11.75
34.1	SOK,SOK,2	28.66	SOK,SOK,1	-13.4
30.23	SOK,SOK,1	22.67	SOK,SOK,8.	-10.37
82.22	OK,OK,41.4	88.06	OK,OK,32.9	-15.44
34.33	SOK,SOK,1	36.21	SOK,SOK,9	14.01
47.98	SOK,SOK,2	46.79	SOK,SOK,1	-11.7
24.71	OK,OK,0.5=	27.66	LOW,LOW,	-14.39
25.71	OK,OK,15.1	31.65	OK,OK,8.3=	-10.56
65.93	SOK,SOK,1	73.12	SOK,SOK,5	-11.47
25.9	OK,OK,4.9=	19.46	OK,OK,3.5=	-13.77

54.01	SOK,SOK,8	52.94	SOK,SOK,7	-13.63
47.13	SOK,SOK,4	44.91	SOK,SOK,2	-13.66
23.61	OK,OK,18.1	33.33	OK,OK,10.2	-11.67
12	OK,OK,0.9=	8.57	LOW,LOW,	-10.29
37.84	OK,OK,15.6	39.39	VLOW,VLO	10.58
12.7	OK,OK,8.3=	16.13	VLOW,VLO	-10.04
44.72	VLOW,VLO	40.35	VLOW,VLO	-16.39
62.5	OK,OK,19.5	51.34	OK,OK,8.6=	-20.11
28	OK,OK,13.1	37.25	LOW,LOW,	-15.71
35.63	OK,OK,7.2=	44.44	OK,OK,6.5=	-25.28
44.83	LOW,LOW,	46.15	VLOW,VLO	-24.37
28.57	VLOW,VLO	23.81	LOW,LOW,	-12.81
59.67	OK,OK,8.3=	62.37	VLOW,VLO	19.62
20.21	OK,OK,6.7=	21.67	OK,OK,2.3=	-10.65
33.85	OK,OK,10.9	41.03	OK,OK,11.6	-11.34
72.31	OK,OK,700	71.43	LOW,LOW,	-18.18
0	VLOW,VLO	0	OK,OK,0.2=	12.5
49.09	VLOW,VLO	69.7	VLOW,VLO	-39.04
50	LOW,LOW,	80	OK,OK,9.7=	-26.24
64.54	SOK,SOK,2	57.98	OK,OK,13.7	-10.07
35.61	SOK,SOK,1	27.88	SOK,SOK,9.	-10.87
47.09	SOK,SOK,1	51.16	SOK,SOK,9	-15.43
65.71	SOK,SOK,1	65.79	SOK,SOK,9	-10.86
61.49	SOK,SOK,1	38.95	OK,OK,67.0	-21.54
21.45	SOK,SOK,6.	23.12	SOK,SOK,7.	-11.77
4.83	OK,OK,1.6=	7.08	VLOW,VLO	11.22
71.61	SOK,SOK,1	65.75	SOK,SOK,7	-12.73
42.09	SOK,SOK,5	48.43	SOK,SOK,2	-16.1
45.09	SOK,SOK,4	40.85	SOK,SOK,3	-10.02
62.62	SOK,SOK,5	60.91	SOK,SOK,4	-11.85
71.32	SOK,SOK,7	73.44	SOK,SOK,5	-11.85
50.88	VLOW,VLO	57.45	VLOW,VLO	-15.55
39.85	SOK,SOK,6	42.69	SOK,SOK,4	-11.71
32.65	SOK,SOK,1	32.9	SOK,SOK,1	-13.21
26.63	SOK,SOK,1	17.23	OK,OK,8.3=	-11.71
37.9	SOK,SOK,8	43.74	SOK,SOK,5	-14.04
38.19	SOK,SOK,2	31.43	SOK,SOK,1	-13.92
41.42	SOK,SOK,6	46.82	SOK,SOK,5	-11.93
25.13	SOK,SOK,7.	26.56	OK,OK,3.9=	-13.84
33.14	SOK,SOK,3	27.88	SOK,SOK,2	-12.36
60.49	OK,OK,6.5=	51.76	OK,OK,4.9=	-10.93
19.48	OK,OK,1.4=	8.41	OK,OK,0.5=	-11.97
22.79	LOW,OK,3.	17.13	LOW,LOW,	-13.54
23.33	SOK,SOK,1	21.14	SOK,SOK,1	-10.91
50.7	SOK,SOK,1	57.83	OK,OK,6.7=	-11.98

23.87	SOK,SOK,2	33.74	SOK,SOK,1	-14.73
52.61	SOK,SOK,9	51.13	SOK,SOK,6	-12.78
2.13	OK,OK,1.3=	4.17	OK,OK,1.9=	14.68
41.87	OK,OK,50.3	35.07	OK,OK,30.5	-12.95
20.99	SOK,SOK,1	25.41	SOK,SOK,1	-10.17
48.78	OK,OK,5.8=	40.43	VLOW,VLO	-22.19
34.67	SOK,SOK,7	41.3	OK,OK,43.5	-13.03
51.22	VLOW,VLO	34.48	LOW,LOW,	-21.08
22.17	OK,OK,4.4=	16.03	OK,OK,2.1=	13.35
41.24	SOK,SOK,5	40.99	SOK,SOK,4	-10.35
52.79	SOK,SOK,1	57.06	OK,OK,77.7	-15.53
47.81	SOK,SOK,8	49.69	SOK,SOK,6	-11.52
41.46	SOK,SOK,1	34.1	SOK,SOK,1	-10.35
43.28	SOK,SOK,6	42.94	SOK,SOK,4	-10.3
34.3	SOK,SOK,1	28.7	OK,OK,10.9	-10.11
50.89	SOK,SOK,5	47.83	SOK,SOK,3	-12.59
20.29	OK,OK,38.0	36.96	OK,OK,41.1	-17.69
30.91	SOK,SOK,2	29.73	SOK,SOK,2	-11.81
47.76	LOW,LOW,	49.22	VLOW,VLO	-20.45
77.42	OK,OK,27.7	58.82	OK,OK,20.5	-16.85
56.32	SOK,SOK,3	53.34	SOK,SOK,2	-12
19.3	OK,OK,0.7=	20	VLOW,VLO	-11.47
23.08	OK,OK,0.5=	15.38	VLOW,VLO	-12.23
26.88	SOK,SOK,1	28.77	OK,OK,10.4	11.12
44.04	SOK,SOK,5	45.33	SOK,SOK,4	-12.6
45.62	SOK,SOK,4	43.94	SOK,SOK,3	-11.09
45.45	SOK,SOK,1	41.73	SOK,SOK,7	-14.58
53.19	VLOW,VLO	51.35	VLOW,VLO	-15.91
38.64	OK,OK,9.7=	38.73	LOW,LOW,	-16.84
60	OK,OK,23.2	72.55	LOW,LOW,	-16.17
72.88	OK,OK,9.0=	71.43	VLOW,VLO	-15.99
36.54	SOK,SOK,6	33.11	SOK,SOK,4	-15.49
39.13	SOK,SOK,1	38.83	SOK,SOK,1	11.18
34.92	OK,OK,19.5	37.5	OK,OK,10.7	-12.4
10.53	LOW,LOW,	18.9	VLOW,VLO	-14.71
52.88	SOK,SOK,5	50.36	SOK,SOK,2	-10.71
49.06	SOK,SOK,3	41.96	OK,SOK,20	-14.33
40.93	SOK,SOK,9	51.08	OK,SOK,76	-15.52
25.3	OK,OK,2.0=	31.82	LOW,LOW,	-17.69
57.49	SOK,SOK,5	49.51	SOK,SOK,5	-14.78
80.14	SOK,SOK,2	73.26	OK,OK,9.5=	-12.59
51.65	SOK,SOK,1	54.33	OK,OK,0.7=	-17.37
30.1	SOK,SOK,2	34.93	SOK,SOK,1	-10.36
78.38	SOK,SOK,1	77.88	SOK,SOK,7	-16.77
47.83	OK,OK,0.9=	57.75	LOW,LOW,	-15.17

62.86	SOK,SOK,1(	59.76	SOK,SOK,6	-12.09
50.48	SOK,SOK,4(	52.08	SOK,SOK,2(	-16.47
38.19	SOK,SOK,3	35.52	SOK,SOK,1	-11.17
31.38	OK,OK,4.4=	39.63	VLOW,VLO	-18.54
42.82	SOK,SOK,6	44.25	SOK,SOK,4	-15.21
66.2	VLOW,VLO	53.56	LOW,LOW,	-20.1
45.42	SOK,SOK,5(	45	SOK,SOK,3	-10.09
39.19	SOK,SOK,1	41.38	OK,OK,10.(	-16.19
61.18	SOK,SOK,4	71.05	SOK,SOK,3	-18.02
60.26	SOK,SOK,3	57.3	OK,OK,22.(	-16.84
42.06	OK,OK,20.4	41.84	OK,OK,10.9	-11.8
39.45	OK,OK,11.4	36	LOW,LOW,	-14.12
26.27	SOK,SOK,6.	14.7	OK,OK,4.4=	-13.12
22.93	LOW,LOW,	29.18	OK,OK,2.8=	-15.51
27.93	OK,OK,9.5=	24.05	OK,OK,1.2=	-15.01
28.4	SOK,SOK,5.	42.34	OK,OK,4.9=	-18.66
11.11	OK,OK,2.8=	14.29	LOW,LOW,	-10.2
34.18	OK,OK,7.7=	39.29	LOW,LOW,	-17.54
62.09	SOK,SOK,0.	62.6	SOK,SOK,0.	-17.37
80.15	SOK,SOK,2	83.8	SOK,SOK,2	-13.88
23.97	SOK,SOK,1	22.08	SOK,SOK,1	-10.36
52.37	SOK,SOK,5(	46.49	SOK,SOK,2	-14.05
23.91	LOW,LOW,	34.34	VLOW,VLO	-19.11
43.48	VLOW,VLO	27.27	LOW,LOW,	-22.36
17.36	OK,OK,3.7=	16.27	OK,OK,3.2=	-13.18
41.19	OK,OK,160	45.6	LOW,LOW,	-14.77
5.56	OK,OK,1.3=	6.38	OK,OK,2.8=	11.67
41.38	SOK,SOK,2	37.85	SOK,SOK,1	-12.29
6.17	OK,OK,1.2=	7.14	OK,OK,1.2=	11.21
20.13	OK,OK,5.1=	25.83	OK,OK,3.2=	-16.77
15.25	OK,OK,1.2=	18.92	LOW,LOW,	-17.09
24.44	OK,OK,9.3=	25.4	OK,OK,8.2=	-10.04
33.91	OK,OK,7.9=	39.45	OK,OK,6.0=	-15.5
41.94	LOW,LOW,	35.59	LOW,LOW,	-15.14
10.34	OK,OK,1.4=	9.09	LOW,LOW,	14.65
8.45	OK,OK,7.7=	4.92	OK,OK,5.1=	14.17
33.06	SOK,SOK,3	23.2	SOK,SOK,1	-15.34
28.44	OK,OK,8.1=	34.21	OK,OK,4.9=	-15.48
31.25	VLOW,VLO	18.52	VLOW,VLO	-24.88
18.54	SOK,SOK,2	20.85	SOK,SOK,1	-10.81
35.85	OK,OK,6.3=	19.57	OK,OK,7.2=	-17.33
31.96	SOK,SOK,1(	38.84	OK,OK,10.4	-19.99
31.91	SOK,SOK,1	31.07	SOK,SOK,1(	-11.07
37.6	SOK,SOK,1(	30.17	SOK,SOK,7	-14.34
48.1	SOK,SOK,1	44.95	SOK,SOK,9.	-22.97

17.65	OK,OK,1.6=	16.13	VLOW,VLO	-10.83
14.29	OK,OK,3.0=	22.45	LOW,LOW,	13.92
52.79	SOK,SOK,3	47.37	SOK,SOK,1	-22.81
20.73	OK,OK,7.4=	25	OK,OK,7.9=	-14.9
35.82	OK,OK,14.8	38.82	OK,OK,7.2=	-13.23
51.85	LOW,LOW,	48.94	VLOW,VLO	-17.82
27.94	OK,OK,2.3=	25.74	LOW,LOW,	-11.03
32.02	SOK,SOK,6	28.21	SOK,SOK,4	-11.78
71.43	SOK,SOK,5	85.4	SOK,SOK,3	-17.78
43.2	OK,OK,19.6	31.42	OK,OK,8.8=	-17.83
40.73	OK,OK,17.4	33.19	OK,OK,8.1=	-19.73
25.2	SOK,SOK,1	16.2	SOK,SOK,6.	-11.24
58.02	SOK,SOK,5.	67.39	SOK,SOK,5.	-15.27
41.24	OK,OK,2.5=	54.11	VLOW,VLO	-33.56
22.86	OK,OK,5.6=	38.46	LOW,LOW,	-20.23
74.86	SOK,SOK,3	88.94	OK,OK,17.6	-17.62
53.77	SOK,SOK,1	53.4	SOK,SOK,1	-10.15
44.38	SOK,SOK,4	50.06	SOK,SOK,2	-11.16
35.7	SOK,SOK,1	40.94	OK,OK,9.7=	-16.11
36.83	SOK,SOK,6	35.78	SOK,SOK,4	-11.36
8.85	OK,OK,0.9=	7.49	LOW,LOW,	13.56
16.67	LOW,LOW,	18.75	VLOW,VLO	-11.44
41.35	OK,OK,13.4	36.97	OK,OK,6.7=	-11.95
44.58	SOK,SOK,2	50.52	OK,OK,14.4	-16.67
24.29	SOK,SOK,3	13.03	SOK,SOK,1	-10.95
16.13	OK,OK,2.8=	18.52	VLOW,VLO	-14.63
15.16	OK,OK,3.2=	17.81	LOW,LOW,	-11.46
29.15	OK,OK,22.1	18.67	OK,OK,6.4=	-17.05
17.26	OK,OK,2.8=	17.8	OK,OK,1.2=	-11.05
17.06	OK,OK,2.8=	11.63	VLOW,LOW	-11.28
28.41	SOK,SOK,1	32.58	OK,OK,10.7	-13.2
52.57	SOK,SOK,1	35.72	OK,OK,10.0	-18.18
36.37	OK,OK,4.9=	48.03	OK,OK,4.4=	-20.49
35.23	SOK,SOK,1	45.43	OK,OK,10.7	-12.26
52.69	OK,OK,0.5=	40.98	LOW,LOW,	-17.47
69.45	SOK,SOK,1	57.4	SOK,SOK,1	-16.23
40.27	SOK,SOK,1	35.54	SOK,SOK,6.	-15.07
27.27	SOK,SOK,1	24.29	OK,OK,5.1=	-17.23
62.86	OK,OK,4.6=	52.94	VLOW,VLO	-17.21
10.91	OK,OK,3.0=	14.81	OK,OK,2.1=	-10.13
91.24	OK,OK,9.0=	89.95	LOW,OK,7.	-23.6
36.61	SOK,SOK,1	35.24	OK,OK,8.6=	-10.77
33.88	OK,OK,2.3=	29.29	OK,OK,0.5=	-12.09
83.33	OK,OK,16.0	82.35	VLOW,VLO	-16.03
38.27	SOK,SOK,2	36.95	OK,OK,9.0=	-12.06

42.5	SOK,SOK,1	39.54	SOK,SOK,8	-11.64
49.91	SOK,SOK,9	46.58	SOK,SOK,6	-13.29
40.91	VLOW,VLO	40	VLOW,VLO	-22.11
43.01	SOK,SOK,1	50.39	OK,OK,21.1	-18.38
13.87	LOW,LOW,	15.13	LOW,LOW,	-11.16
24.14	OK,OK,6.0=	22.22	OK,OK,2.3=	-11.75
74.9	SOK,SOK,2	83.39	OK,OK,15.5	-14.75
49.83	SOK,SOK,2	43.32	SOK,SOK,1	-12.31
36.09	SOK,SOK,3	33.46	SOK,SOK,2	-11.5
16.35	SOK,SOK,2	15.8	OK,OK,19.4	-11.51
20.73	OK,OK,16.8	22.81	OK,OK,12.1	-11.6
15.15	OK,OK,3.2=	20.93	LOW,LOW,	-10.03
28.89	OK,OK,7.9=	23.71	OK,OK,6.3=	-15.87
65.81	OK,OK,12.8	63.64	OK,OK,6.7=	-19.09
18.52	SOK,SOK,9.	20	OK,OK,2.8=	-11.26
58.97	LOW,LOW,	65.85	VLOW,VLO	-23.86
93.77	VLOW,VLO	82.93	VLOW,VLO	11.65
27.83	LOW,LOW,	41.2	LOW,LOW,	-21.01
21.03	SOK,SOK,8.	29.78	SOK,SOK,6.	-15.46
2.7	LOW,LOW,	0	VLOW,VLO	13.22
5.88	OK,OK,2.6=	15.2	VLOW,VLO	-10.54
86.75	SOK,SOK,N	85.28	SOK,SOK,N	13.98
22.67	OK,OK,0.9=	16.13	VLOW,VLO	-12.61
20.69	OK,OK,3.5=	15.56	LOW,LOW,	-15.74
32.56	OK,OK,6.5=	30.02	OK,OK,6.7=	-15.13
52.38	LOW,LOW,	50	VLOW,VLO	-13.1
28.36	OK,OK,8.3=	22.39	OK,OK,7.0=	-17.34
57.14	SOK,SOK,3	46.43	OK,OK,17.2	-36.88
50.18	SOK,SOK,3	44.59	SOK,SOK,2	-18.87
36	OK,OK,4.2=	40.74	LOW,LOW,	-12.49
35.59	LOW,LOW,	36.84	VLOW,VLO	-18.09
20.41	SOK,SOK,2	22.39	SOK,SOK,1	-10.34
45.34	SOK,SOK,6	45.53	SOK,SOK,4	-11.44
15.22	OK,OK,4.6=	11.43	OK,OK,2.5=	11.92
21.52	OK,OK,7.2=	38.1	VLOW,VLO	-18.7
35.62	SOK,SOK,2	33.24	SOK,SOK,1	-10.72
54.14	SOK,SOK,7	59.2	SOK,SOK,5	-13.03
24.24	SOK,SOK,8.	23.81	OK,OK,7.9=	-16.74
65.75	SOK,SOK,1	58.01	SOK,SOK,6	-12.26
30.39	OK,OK,3.7=	26.55	OK,OK,5.6=	-12.09
71.92	SOK,SOK,1	67.29	SOK,SOK,1	-10.58
40.43	OK,OK,8.2=	17.42	OK,OK,6.8=	-18.45
56.81	SOK,SOK,7	61.48	SOK,SOK,6	-18.22
40.49	SOK,SOK,1	44.06	SOK,SOK,8.	-14.2
16.19	OK,OK,5.1=	20	OK,OK,7.4=	-11.76

32.02	SOK,SOK,2	41.71	SOK,SOK,1	-11.26
28.77	OK,OK,3.7=	28.57	VLOW,VLO	-12.93
14.29	OK,OK,4.4=	6.06	OK,OK,1.4=	15.74
95.35	SOK,SOK,6	93.79	SOK,SOK,3	-12.99
28.57	OK,OK,11.8	23.3	OK,OK,6.5=	-12.7
14.8	SOK,SOK,8.	25.16	OK,OK,6.0=	-13.09
27.94	SOK,SOK,7.	25.1	SOK,SOK,7.	-11.94
63.22	OK,OK,11.1	50	VLOW,VLO	16.41
20.31	SOK,SOK,1	30.06	SOK,SOK,1	-12.76
26.33	OK,OK,2.8=	33.05	OK,OK,1.4=	-21.17
84	OK,OK,10.0	78.38	VLOW,VLO	-10.5
43	SOK,SOK,7	33.78	SOK,SOK,5	-15.6
30.77	SOK,SOK,1	17.32	SOK,SOK,1	-17.47
43.26	SOK,SOK,8	42.02	SOK,SOK,5	-12.24
36.54	SOK,SOK,1	34.63	SOK,SOK,1	-11.06
31.75	SOK,SOK,3	32.66	SOK,SOK,2	-11.07
9.91	SOK,SOK,1	14.85	OK,OK,13.0	-10.65
34.15	SOK,SOK,2	29.84	OK,OK,10.2	-14.45
48.57	OK,OK,6.7=	50.55	VLOW,VLO	-18.73
42.31	SOK,SOK,2	49.14	SOK,SOK,2	-11.75
23.14	SOK,SOK,1	18.97	SOK,SOK,7.	-10.92
46.58	OK,OK,11.8	28.16	LOW,LOW,	-14.44
13.98	OK,OK,7.4=	23.08	LOW,LOW,	-11.21
37.64	OK,OK,15.5	38.54	OK,OK,6.5=	-16.42
28.3	SOK,SOK,3.	17.31	OK,OK,2.5=	-12.57
19.87	SOK,SOK,2.	21.24	OK,OK,3.5=	-11.26
23.67	SOK,SOK,1	25.14	SOK,SOK,9.	-12.14
29.91	OK,OK,10.2	21.82	OK,OK,5.3=	-10.33
70.15	SOK,SOK,4	73.75	SOK,SOK,3	-17.37
72.02	SOK,SOK,1	76.56	SOK,SOK,9	-15.31
18.92	LOW,LOW,	22.58	VLOW,VLO	-13.65
15.25	OK,OK,6.4=	14.53	VLOW,VLO	-10.22
35.02	SOK,SOK,1	34.29	SOK,SOK,1	-10.05
36.25	SOK,SOK,1	31.43	OK,OK,11.1	-10.19
42.62	SOK,SOK,1	23.12	OK,SOK,10	18.9
36.01	SOK,SOK,8	38.95	SOK,SOK,6	-17.02
13.21	OK,OK,1.6=	13.04	OK,OK,1.4=	-11.04
24	OK,OK,2.1=	21.13	OK,OK,1.6=	-12.43
20.99	OK,OK,7.0=	17.45	OK,OK,2.5=	-11.43
28	OK,OK,11.1	24.21	OK,OK,7.9=	-15.84
100	OK,OK,14.8	100	OK,OK,9.7=	-14.28
55.22	OK,OK,8.2=	37.26	OK,OK,7.8=	-16.97
34.76	OK,OK,9.5=	27.81	OK,OK,4.4=	-10.14
74.75	SOK,SOK,1	77.69	SOK,SOK,1	-13.45
16.69	OK,OK,4.9=	11.98	OK,OK,2.8=	-10.8

45.05	SOK,SOK,1	38.85	SOK,SOK,9	-15.05
17.84	OK,OK,0.9=	15.98	LOW,LOW,	-12.02
48.66	SOK,SOK,4	46.94	SOK,SOK,3	-10.63
28.46	OK,OK,11.6	26.14	OK,OK,5.6=	-12.6
53.4	OK,OK,4.2=	63.64	VLOW,VLO	-22.3
38.33	SOK,SOK,2	40.7	SOK,SOK,9.	-13.06
58.62	SOK,SOK,3	58.04	SOK,SOK,2	-11.05
46.29	SOK,SOK,3	51.02	OK,OK,22.9	-10.24
50.93	OK,OK,19.5	47.34	VLOW,VLO	19.44
50	SOK,SOK,1	68.75	VLOW,VLO	-19.44
24.99	SOK,SOK,2	28.48	SOK,SOK,1	-13.16
22.71	SOK,SOK,2	16.53	SOK,SOK,1	-14.74
51.44	SOK,SOK,8	49.26	SOK,SOK,5	-13.38
55.85	SOK,SOK,8	46.6	SOK,SOK,5	-15.86
66.84	SOK,SOK,1	68.18	SOK,SOK,6	-10.4
72.29	SOK,SOK,1	72.84	SOK,SOK,6	-11.61
17.95	LOW,LOW,	11.63	LOW,LOW,	-10.98
45.26	SOK,SOK,1	42.68	SOK,SOK,9	-13.23
40	LOW,LOW,	47.62	VLOW,VLO	-15.86
25.97	LOW,LOW,	32.1	VLOW,VLO	-13.47
17.68	OK,SOK,6.3	25.11	OK,OK,4.2=	-12.32
48.6	SOK,SOK,2	51.99	SOK,SOK,2	-11.44
38.68	SOK,SOK,1	42.19	OK,OK,12.5	-16.97
49.33	LOW,LOW,	50	VLOW,VLO	-14.61
22.65	SOK,SOK,1	25.95	OK,OK,6.0=	-12.14
34.16	SOK,SOK,2	34.46	SOK,SOK,1	-10.83
43.46	SOK,SOK,5	48.24	SOK,SOK,3	-11.9
29.58	OK,OK,0.7=	20	VLOW,VLO	-14.03
33.77	SOK,SOK,7.	39.82	OK,OK,7.4=	-11.12
14.84	OK,OK,17.1	10.53	OK,OK,9.3=	10.98
35.71	LOW,LOW,	33.33	LOW,LOW,	-10.33
43.99	SOK,SOK,7	35.27	SOK,SOK,5	-10.36
14.43	LOW,LOW,	7.34	VLOW,VLO	-10.88
24.55	SOK,SOK,2	20.74	SOK,SOK,1	-11.29
12.28	OK,OK,3.5=	13.51	OK,OK,1.9=	14.81
27.33	OK,OK,7.0=	28.33	LOW,LOW,	-13.54
19.43	OK,OK,6.4=	26.87	OK,OK,7.0=	-12.51
28.48	SOK,SOK,3	31.86	SOK,SOK,2	-14.67
17.16	SOK,SOK,2	22.14	SOK,SOK,2	10.46
22.57	OK,OK,6.1=	16.4	LOW,LOW,	-15.84
20.64	OK,OK,3.0=	19.87	OK,OK,2.1=	-17.15
27.26	SOK,SOK,2	29.57	SOK,SOK,2	-10.59
22.12	SOK,SOK,1	15.79	OK,OK,6.3=	-10.95
49.61	SOK,SOK,5	45.57	SOK,SOK,3	-12.22
26.32	OK,OK,3.2=	18.52	OK,OK,2.3=	-14.79

46.84	OK,OK,18.5	64.1	VLOW,VLO	-18.64
21.05	OK,OK,4.6=	11.69	OK,OK,3.5=	-12.71
62.43	SOK,SOK,1	55.56	SOK,SOK,8.	-11.79
23.87	OK,OK,11.6	17.65	OK,OK,7.4=	-12.04
71.43	SOK,SOK,1	76.92	LOW,LOW,	14.47
21.86	SOK,SOK,1	27.23	OK,SOK,6.3	-12.66
32.63	OK,OK,8.6=	32.08	LOW,LOW,	-13.04
35.88	OK,OK,7.9=	23.09	OK,OK,3.7=	-16.44
19.76	SOK,SOK,2	18.91	SOK,SOK,1	-13.01
61	LOW,LOW,	68.44	LOW,LOW,	-26.52
67.5	SOK,SOK,1	67.9	SOK,SOK,1	-16.93
3.03	OK,OK,1.4=	5.26	OK,OK,1.2=	11.18
22.51	SOK,SOK,1	23.37	SOK,SOK,6.	-11.32
19.43	SOK,SOK,2	20.82	SOK,SOK,1	-10.08
29.41	LOW,LOW,	29.03	VLOW,VLO	-17.76
57.48	SOK,SOK,6	53.41	SOK,SOK,4	-12.35
61.05	SOK,SOK,7.	48.21	OK,OK,5.6=	-19.76
57.38	SOK,SOK,3	51.94	OK,OK,16.9	-18.91
30.33	SOK,SOK,2	29.6	SOK,SOK,1	-12.35
59.9	SOK,SOK,7	56.35	SOK,SOK,4	-11.8
69.28	SOK,SOK,6	69.09	SOK,SOK,5	-13.31
78.03	SOK,SOK,1	75.93	SOK,SOK,9	-14.91
29.23	OK,OK,10.2	16.28	OK,OK,5.5=	-13.4
31.76	OK,OK,7.4=	52.38	VLOW,VLO	-22.4
90.8	SOK,SOK,3	88.24	OK,OK,19.7	-10.03
35.02	SOK,SOK,2	32.82	SOK,SOK,1	-10.12
71.13	OK,OK,15.5	67.9	OK,OK,11.8	13.98
43.91	SOK,SOK,1	36.76	SOK,SOK,1	-14.97
63.11	SOK,SOK,9	59.68	SOK,SOK,6	-15.59
50.72	SOK,SOK,1	50.27	SOK,SOK,1	-11.55
56.83	SOK,SOK,1	52.81	OK,OK,12.5	-17.54
11.26	LOW,LOW,	20.47	VLOW,VLO	-13.86
60	SOK,SOK,1	55.56	OK,OK,12.3	-28.75
66.05	SOK,SOK,1	73.42	LOW,LOW,	-18.95
75.04	SOK,SOK,5	58.8	SOK,SOK,3	-17.34
38.01	OK,OK,13.0	34.78	OK,OK,6.3=	-11.03
16.83	OK,OK,0.9=	13.93	VLOW,VLO	-13.81
41.25	SOK,SOK,3	42.13	SOK,SOK,2	-18.07
68.69	SOK,SOK,8	65.21	SOK,SOK,5	-16.56
14	OK,OK,0.0=	14.75	OK,OK,0.4=	-12.55
45.1	OK,OK,20.9	47.92	OK,OK,19.5	-11.13
36.79	SOK,SOK,3	34.35	SOK,SOK,1	-10.02
16	OK,OK,1.2=	17.24	VLOW,VLO	-14.62
5.26	LOW,LOW,	8.11	LOW,LOW,	11.38
55	VLOW,VLO	79.31	VLOW,VLO	20.14

23.77	OK,OK,5.1=	21.11	OK,OK,3.0=	-12.73
35.29	OK,OK,2.5=	39.68	LOW,LOW,	-13.29
43.35	SOK,SOK,1	40.26	SOK,SOK,1	-11.5
51.22	VLOW,VLO	44.44	VLOW,VLO	28.79
20.3	OK,OK,3.7=	20.69	OK,OK,1.4=	-14.68
59.04	SOK,SOK,3	60.74	SOK,SOK,2	-11.27
28.98	SOK,SOK,4	31.18	SOK,SOK,2	-14.29
40.73	SOK,SOK,2	43.02	SOK,SOK,2	-13.72
32.06	OK,OK,2.5=	40.36	LOW,LOW,	-12.55
30.03	SOK,SOK,1	26.53	SOK,SOK,1	-11.39
38.57	SOK,SOK,3	43.64	SOK,SOK,1	-16.04
77.5	SOK,SOK,1	82.97	SOK,SOK,8	-10.26
32.67	OK,OK,0.0=	38.98	LOW,LOW,	-15.2
15.49	LOW,LOW,	15.87	VLOW,VLO	-15.68
12.56	LOW,LOW,	10.9	LOW,LOW,	-11.73
15.66	OK,OK,3.2=	16.42	OK,OK,3.5=	11
45.65	OK,OK,10.6	51.22	VLOW,VLO	-20.09
39.68	OK,OK,7.9=	29.31	OK,OK,4.9=	-13.82
46.34	VLOW,VLO	31.71	VLOW,VLO	-25.02
23.96	SOK,SOK,2	32.08	SOK,SOK,1	-11.47
16.53	OK,OK,3.5=	43.5	LOW,LOW,	-20.63
22.14	OK,OK,3.7=	23.08	OK,OK,3.9=	-10.88
19.29	OK,OK,15.5	18.31	OK,OK,17.9	-11.72
28.47	OK,OK,7.9=	36.71	OK,OK,5.1=	20.14
91.06	SOK,SOK,2	94.41	SOK,SOK,2	-12.24
37.16	SOK,SOK,1	42.86	SOK,SOK,9.	-12.88
9.91	OK,OK,0.0=	24.87	VLOW,VLO	-16.14
36.84	OK,OK,15.0	42.86	OK,OK,16.4	-22.39
68.42	SOK,SOK,1	71.25	SOK,SOK,1	-13.12
60.56	OK,OK,10.4	47.97	VLOW,VLO	12.04
66.52	SOK,SOK,6	74.39	SOK,SOK,4	-14.18
41.74	SOK,SOK,2	31.32	SOK,SOK,1	-15.94
54.39	LOW,LOW,	48.72	VLOW,VLO	-17.08
39.71	SOK,SOK,2	42.54	SOK,SOK,1	-11.84
31.76	OK,OK,3.0=	20.89	OK,OK,1.9=	-17.39
33.77	SOK,SOK,9.	26.19	OK,OK,4.6=	-18.55
38.26	SOK,SOK,1	31.7	SOK,SOK,1	-12.97
30	SOK,SOK,7.	25	SOK,SOK,6.	-13.95
42.06	SOK,SOK,1	30.75	OK,OK,9.3=	-15.68
48.8	SOK,SOK,1	53.57	SOK,SOK,8	-15.69
40.62	SOK,SOK,1	32.21	SOK,SOK,8	-13.69
16.67	OK,OK,1.6=	9.88	OK,OK,0.0=	-12.54
37.69	SOK,SOK,9	41.64	SOK,SOK,6	-10.54
62.76	SOK,SOK,1	50.79	SOK,SOK,1	-14.86
67.79	SOK,SOK,8	68.3	SOK,SOK,5	-12.61

13.27	SOK,SOK,3.	18.79	OK,OK,2.8=	-11.46
13.93	OK,OK,0.7=	11.97	OK,OK,0.2=	-12.95
49.25	LOW,LOW,	72.73	VLOW,VLO	-34.5
35.08	OK,OK,6.1=	33.6	OK,OK,2.9=	-14.18
68.21	SOK,SOK,3	59.36	SOK,SOK,2	-17.4
84.62	OK,OK,0.5=	100	VLOW,VLO	-33.33
30.02	OK,OK,3.9=	40.14	OK,OK,10.2	-14.56
78.46	OK,OK,4.9=	76.19	LOW,LOW,	-19.54
40.16	SOK,SOK,4	40.24	SOK,SOK,2	-21.43
21.98	SOK,SOK,3	20.88	OK,OK,16.5	-11.19
22.13	LOW,LOW,	14.92	OK,OK,2.3=	-14.84
43.43	LOW,LOW,	40.49	OK,OK,8.1=	-13.75
14.67	OK,OK,1.6=	7.56	LOW,LOW,	14.19
38.67	OK,OK,13.7	36	LOW,LOW,	30.18
16.72	SOK,SOK,2	24.14	SOK,SOK,1	-11.68
72.56	SOK,SOK,1	66.5	SOK,SOK,5	-15.79
60.93	SOK,SOK,2.	60.72	SOK,SOK,1.	-13.74
18.52	OK,OK,1.2=	14.29	LOW,LOW,	18.83
44.12	SOK,SOK,2	42.76	SOK,SOK,2	-15.45
68.85	SOK,SOK,3	69.91	SOK,SOK,3	-13.92
14	OK,OK,6.3=	15.79	OK,OK,2.5=	10.76
37.88	SOK,SOK,3	40.65	SOK,SOK,2	-11.03
17.07	LOW,LOW,	25.55	VLOW,VLO	-15.74
13.73	OK,OK,0.0=	17.24	VLOW,VLO	-10.93
53.82	SOK,SOK,8	53.64	SOK,SOK,6	-14.85
53.92	SOK,SOK,8	62.44	SOK,SOK,6	-13.2
52.48	OK,OK,8.1=	44.93	LOW,LOW,	-17.85
60.93	OK,OK,4.4=	59.7	VLOW,VLO	-20.36
50.18	SOK,SOK,2	48.25	SOK,SOK,1	-10.84
44.12	SOK,SOK,1	48.2	SOK,SOK,1	-12.86
27.24	OK,OK,4.6=	33.28	VLOW,VLO	-22.66
14.84	SOK,SOK,0.	22.09	SOK,SOK,0.	13.45
12.33	SOK,SOK,2	17.5	SOK,SOK,2	10.19
29.27	SOK,SOK,1	22.64	OK,OK,8.3=	-14.04
29.52	SOK,SOK,2	29.96	SOK,SOK,2	-10.91
44.39	SOK,SOK,8.	42.83	SOK,SOK,3.	-15.2
41.46	VLOW,VLO	35.48	VLOW,VLO	-31.39
72.01	SOK,SOK,8	70.01	SOK,SOK,6	-12.05
68.64	SOK,SOK,6	74.09	SOK,SOK,4	-13.47
33.43	SOK,SOK,7	32.45	SOK,SOK,5	-10.7
23.94	SOK,SOK,4	18.35	SOK,SOK,3	-10.21
36.8	SOK,SOK,7	32.13	SOK,SOK,5	-10.52
38.97	SOK,SOK,1	34.29	SOK,SOK,1	-11.54
40.48	OK,OK,17.5	36.17	LOW,LOW,	22.11
45.45	OK,OK,12.0	38.71	LOW,LOW,	-24.38

25.93	OK,OK,9.1=	20	OK,OK,7.8=	-12.65
96.13	SOK,SOK,1	91.34	OK,OK,18.5	-10.05
44.94	SOK,SOK,1	36.92	SOK,SOK,1	-12.12
39.22	SOK,SOK,2	47.64	SOK,SOK,2	-14
81.82	OK,OK,4.6=	77.78	LOW,LOW,	-16.53
51.43	SOK,SOK,7	38.42	SOK,SOK,4	-16
22.22	OK,OK,5.6=	25	OK,OK,7.0=	-12.62
33.32	SOK,SOK,1	26.73	SOK,SOK,9.	-15.01
27.66	SOK,SOK,1	32.02	SOK,SOK,9.	-15.78
35.52	SOK,SOK,1	33.59	SOK,SOK,1	-11.15
8.05	LOW,OK,0.	33.55	VLOW,OK,	-20.8
49.59	SOK,SOK,2	53.39	SOK,SOK,1	-13.01
32.54	SOK,SOK,2	34.1	SOK,SOK,1	-10.84
65.77	SOK,SOK,8	65.88	SOK,SOK,6	-12.49
10.45	OK,OK,2.5=	20	LOW,LOW,	-13.37
50.3	SOK,SOK,3	46.76	SOK,SOK,2	-10.29
24.59	OK,OK,10.9	4	VLOW,VLO	26.35
39.89	SOK,SOK,5	33.04	SOK,SOK,3	-15.78
38.07	SOK,SOK,4	38.26	SOK,SOK,3	-11.34
40.95	SOK,SOK,1	39.17	SOK,SOK,8	-13.29
39.62	LOW,LOW,	62.79	VLOW,VLO	-25.2
11.43	OK,OK,3.8=	1.69	OK,OK,0.5=	14.99
69.49	SOK,SOK,9	79.13	SOK,SOK,6	-15.68
29.81	SOK,SOK,5	25.66	OK,OK,23.1	-11.44
38.99	SOK,SOK,5	44.84	SOK,SOK,3	-12.18
19.54	OK,OK,2.5=	28.61	OK,OK,4.2=	-13.03
22.28	OK,OK,31.7	24.78	LOW,LOW,	-12.48
33.33	OK,OK,6.0=	40.54	OK,OK,3.7=	-14.58
70.13	SOK,SOK,7	70.41	SOK,SOK,4	-13.79
74.8	SOK,SOK,1	75.9	SOK,SOK,1	-11.4
73.39	SOK,SOK,5	70.32	SOK,SOK,4	10.35
33.53	SOK,SOK,5	34.04	OK,SOK,30.	-10.3
35.84	SOK,SOK,2	28.94	SOK,SOK,2	-10.94
38.88	VLOW,LOW	24.21	LOW,LOW,	-17.98
46.84	OK,OK,11.9	36.11	OK,OK,6.1=	-16.09
37.7	LOW,LOW,	45.95	VLOW,VLO	-19.95
14.29	LOW,LOW,	20	VLOW,VLO	-15.14
17.61	OK,OK,3.7=	28.61	LOW,LOW,	-17.1
61.54	SOK,SOK,9	62.55	SOK,SOK,5	-10.16
20.86	OK,OK,3.0=	21.77	VLOW,VLO	-16.93
62.88	SOK,SOK,9	59.97	SOK,SOK,7	-11.36
45.1	SOK,SOK,1.	45.68	OK,OK,0.5=	-12.93
20.48	VLOW,VLO	29.03	VLOW,VLO	-15.92
23.64	SOK,SOK,9.	18.58	OK,OK,6.3=	-13.08
32.7	OK,OK,1.2=	37.92	LOW,LOW,	-20.53

48.28	SOK,SOK,2	52.32	SOK,SOK,2	-17.77
52.33	SOK,SOK,3	51.58	SOK,SOK,2	-10.26
81.14	SOK,SOK,3	75.1	LOW,LOW,	-10.19
30.71	SOK,SOK,6	27.76	SOK,SOK,4	-10.43
26.96	OK,OK,8.8=	27.5	OK,OK,6.7=	-10.45
75.68	OK,OK,29.3	69.17	OK,OK,29.3	-16.88
29.12	OK,OK,10.0	21.7	OK,OK,8.6=	-13.17
26.39	SOK,SOK,3	27.78	SOK,SOK,2	-11.57
23.53	VLOW,VLO	11.11	LOW,LOW,	-16.21
45.45	OK,OK,7.0=	44.68	VLOW,VLO	-17.04
15.56	OK,OK,7.9=	12.5	OK,OK,3.0=	-14.03
64.95	OK,OK,13.2	58.03	OK,OK,10.0	-16.28
39.88	SOK,SOK,7	35.04	SOK,SOK,4	-14.37
54.31	SOK,SOK,1	50.08	SOK,SOK,1	-10.12
14.29	OK,OK,0.7=	13.21	OK,OK,0.9=	-10.72
29.03	OK,OK,3.2=	24.59	OK,OK,5.3=	-11.93
16.42	OK,OK,5.0=	21.95	LOW,LOW,	-10.26
37.13	SOK,SOK,2	34.53	SOK,SOK,2	-17.67
26.78	SOK,SOK,3	18.26	SOK,SOK,1	-10.89
0	OK,SOK,0.0	0	LOW,OK,0.	14.67
29.23	OK,OK,4.4=	27.24	OK,OK,1.9=	-11.34
7.41	OK,OK,1.5=	10.27	OK,OK,0.3=	16.43
55.18	SOK,SOK,5	54.12	SOK,SOK,2	-18.56
38.86	SOK,SOK,5	48.15	SOK,SOK,4	-21.68
42.54	SOK,SOK,7	40.54	SOK,SOK,3	-12.99
69.7	SOK,SOK,1	58.82	OK,OK,11.6	-17.03
47.57	OK,OK,20.2	50.8	OK,OK,14.8	-17.85
18.83	OK,SOK,6.7	16.43	OK,OK,2.8=	-11.88
16.08	OK,OK,3.0=	9.09	OK,OK,3.2=	-11.12
34.37	SOK,SOK,1	32.62	OK,OK,7.2=	-11.03
18.64	OK,OK,9.5=	18.7	OK,OK,6.3=	20.56
10.17	OK,OK,9.3=	3.45	OK,OK,3.9=	14.44
36.26	SOK,SOK,1	23.53	OK,OK,6.0=	-16.69
34.41	SOK,SOK,2	41.71	SOK,SOK,1	-13.19
43.25	SOK,SOK,3	40.98	SOK,SOK,2	-11.11
34.28	VLOW,VLO	33.47	VLOW,VLO	-24.81
36.94	OK,OK,6.0=	39.76	OK,OK,6.3=	-16.69
20	OK,OK,2.3=	18.64	OK,OK,2.3=	-11.44
30.69	OK,OK,6.9=	29.27	OK,OK,7.5=	-13.66
16.53	OK,OK,4.6=	16.87	OK,OK,5.6=	-11.4
44.91	SOK,SOK,7	44.31	SOK,SOK,5	-18.05
28.97	SOK,SOK,1	32.87	OK,OK,12.5	-10.92
23.51	SOK,SOK,1	22.13	OK,OK,4.4=	-15.03
18.36	OK,OK,4.8=	17.33	OK,OK,3.4=	-11.55
43.36	SOK,SOK,1.	55.83	SOK,SOK,0.	-13.64

19.11	OK,OK,1.2=	17.09	OK,OK,1.4=	-10.64
40.38	SOK,SOK,2	30.92	SOK,SOK,1	-14.09
48.07	SOK,SOK,4	40.62	SOK,SOK,2	-14.43
23.4	LOW,LOW,	20	VLOW,VLO	-10.15
27.27	OK,OK,7.2=	34.69	LOW,LOW,	-12.06
68.42	OK,OK,18.8	63.33	LOW,LOW,	-19.44
21.57	OK,OK,1.6=	18.52	VLOW,VLO	-15.09
30.08	OK,OK,10.4	27.4	OK,OK,6.5=	-15.65
43.64	OK,OK,6.0=	27.03	OK,OK,0.9=	-16.36
36.53	OK,OK,11.4	45.76	LOW,LOW,	-13.34
24.44	LOW,LOW,	17.17	OK,OK,0.9=	-11.58
38.38	SOK,SOK,1	35.94	OK,OK,16.3	-13.06
39.22	SOK,SOK,2	33.74	SOK,SOK,1	-14.68
7.28	LOW,LOW,	13.58	VLOW,VLO	-10.43
32.94	OK,OK,5.1=	22.01	OK,OK,3.0=	-14.52
21.06	OK,OK,15.6	21.63	OK,OK,11.7	-11.34
31.61	VLOW,VLO	22.1	VLOW,VLO	-14.02
27.06	OK,OK,7.9=	14.29	OK,OK,4.4=	-16.89
90.47	SOK,SOK,4	89.77	SOK,SOK,3	-12.26
17.48	OK,OK,4.9=	16.24	OK,OK,4.6=	15.69
23.42	SOK,SOK,9.	26.57	SOK,SOK,9.	-10.09
61.72	LOW,LOW,	68.56	LOW,LOW,	-13.53
89.19	SOK,SOK,2	93.68	OK,OK,19.8	-12.69
17.5	OK,OK,3.7=	20	OK,OK,2.1=	-13.32
22.54	SOK,SOK,8.	19.72	OK,OK,4.9=	-12.25
25.59	SOK,SOK,3	23.26	SOK,SOK,3	-10.93
51.94	SOK,SOK,1	50.05	SOK,SOK,1	-12.99
50.55	SOK,SOK,3	48.28	SOK,SOK,2	-11.12
38.44	OK,OK,13.4	35.37	OK,OK,10.2	-10.74
26.83	LOW,LOW,	31.43	VLOW,VLO	-19.42
37.06	SOK,SOK,5	34.6	SOK,SOK,5	-11.24
31.04	SOK,SOK,1	33.66	SOK,SOK,8	-11.55
50.09	SOK,SOK,1	55.77	SOK,SOK,1	-10.43
33.54	SOK,SOK,1	30.34	SOK,SOK,8.	-11.9
12.5	OK,OK,2.8=	22.89	OK,OK,1.9=	-12.84
18.23	SOK,SOK,1	20.83	OK,OK,7.2=	-10.09
26.54	SOK,SOK,1	27.83	SOK,SOK,1	-13.38
10.34	VLOW,VLO	15.77	VLOW,VLO	-13.05
53.39	SOK,SOK,3	54.52	OK,OK,18.3	-15.43
46.36	SOK,SOK,1	45.7	SOK,SOK,1	-11.2
41.1	SOK,SOK,5	39.15	OK,OK,31.8	-19.82
10.83	LOW,LOW,	14.78	VLOW,VLO	-12.8
18.52	OK,OK,2.5=	15.25	OK,OK,0.5=	-10.03
8.05	OK,OK,10.6	13.79	OK,OK,6.2=	-10.08
49.62	SOK,SOK,5	50.61	SOK,SOK,4	-10.34

35.13	SOK,SOK,1	34.68	SOK,SOK,8	-10.37
21.37	OK,OK,4.6=	18.42	OK,OK,3.0=	-11.69
20.59	OK,OK,26.7	15.15	OK,OK,13.1	-11.54
34.99	SOK,SOK,3	29.11	SOK,SOK,1	-10.55
22.73	OK,OK,14.7	16.23	OK,OK,2.1=	-13.1
7.22	LOW,LOW,	17.05	VLOW,VLO	-12.13
19.66	OK,OK,2.5=	56.63	VLOW,VLO	-28.94
30.88	OK,OK,4.4=	22.75	OK,OK,2.3=	-12.47
14.63	OK,OK,0.5=	11.11	OK,OK,1.2=	-12.08
3.42	OK,OK,0.0=	13.58	OK,OK,0.0=	13.61
15.46	OK,OK,1.9=	12.5	LOW,LOW,	-11.01
37.31	OK,OK,3.2=	38.46	LOW,LOW,	-19.62
29.48	SOK,SOK,2	24.54	SOK,SOK,1	-11.49
20.93	LOW,LOW,	21.43	VLOW,VLO	-10.39
37.77	SOK,SOK,5	36.97	SOK,SOK,4	-11.88
24.54	OK,SOK,13	14.44	OK,SOK,10	-12.43
34.05	SOK,SOK,7	29.17	SOK,SOK,3	-11.25
49.99	SOK,SOK,2	59.5	SOK,SOK,2	-13.81
41.6	OK,OK,1.6=	37.41	VLOW,VLO	-12.39
45.36	SOK,SOK,8	45.37	SOK,SOK,6	-10.77
32.4	SOK,SOK,1	34.04	SOK,SOK,8.	-15.54
33.33	SOK,SOK,4	28.63	SOK,SOK,2	-12.28
27.92	SOK,SOK,3	24.37	SOK,SOK,2	-11.79
14.39	OK,OK,0.7=	20.98	LOW,LOW,	-10.44
31.91	OK,OK,11.1	41.38	LOW,LOW,	-15.28
30.4	OK,OK,11.6	29.17	OK,OK,8.1=	-12.35
48.06	SOK,SOK,3	50.94	SOK,SOK,2	-13.83
26.13	OK,OK,4.4=	16.85	OK,OK,1.4=	-13.47
37	SOK,SOK,3	39.73	SOK,SOK,1	-15.47
21.41	SOK,SOK,1	18.73	SOK,SOK,1	-11.19
22.81	OK,OK,1.2=	38.89	VLOW,VLO	-29.24
38.85	SOK,SOK,6	39.91	SOK,SOK,5	-12.95
13.29	OK,OK,3.2=	18.31	OK,OK,2.1=	21.26
15.04	OK,OK,NA=	14.67	OK,OK,NA=	10.94
58.63	SOK,SOK,1	57.61	SOK,SOK,1	-13.55
8.97	OK,OK,3.0=	6.51	OK,OK,3.9=	10.87
34.39	SOK,SOK,4	33.91	SOK,SOK,1	-15.74
28.3	LOW,LOW,	20	LOW,LOW,	-12.49
63.81	SOK,SOK,1	60.23	SOK,SOK,1	-12.8
13.25	OK,OK,2.8=	19.15	LOW,LOW,	-11.08
35.48	OK,OK,4.6=	24.05	OK,OK,3.0=	-12.63
55.39	SOK,SOK,4	50.34	SOK,SOK,2	-10.54
29.9	SOK,SOK,2	33.82	SOK,SOK,1	-13.2
14.65	SOK,SOK,5.	21.99	OK,OK,4.4=	-11.25
52.19	SOK,SOK,1	30.91	OK,OK,11.9	-16.71

16.88	SOK,SOK,7.	19.46	OK,OK,4.9=	-12.16
39.35	SOK,SOK,2(	37.34	OK,OK,12.8	-13.43
28.89	SOK,SOK,1(	32.51	SOK,SOK,6.	-11.3
41.27	SOK,SOK,4:	36.81	SOK,SOK,2!	-12.28
37.29	SOK,SOK,1!	30.72	SOK,SOK,1:	-13.56
18.37	OK,OK,13.5	21.05	LOW,LOW,	-11.83
55.59	SOK,SOK,6:	62.68	SOK,SOK,5:	-14.86
56.82	SOK,SOK,7!	55.42	SOK,SOK,5:	-12.32
22.22	OK,OK,8.6=	16.22	OK,OK,4.6=	-11.65
32.38	SOK,SOK,5!	25.55	SOK,SOK,2!	-10.83
42.44	SOK,SOK,3	43.7	OK,OK,26.4	-15.54
33.06	SOK,SOK,2:	25.75	SOK,SOK,1:	-12.25
63.49	SOK,SOK,1:	64.04	SOK,SOK,7	-12.36
47.91	OK,OK,7.7=	55.12	LOW,LOW,	-17.58
45.68	OK,OK,3.0=	51	OK,OK,7.0=	-26.73
78.67	OK,OK,7.7=	73.77	LOW,LOW,	-17.19
41.62	SOK,SOK,2(	40.65	OK,OK,10.7	-15.3
70.5	SOK,SOK,5:	73.11	SOK,SOK,2!	-20.26
57.89	LOW,LOW,	55.56	LOW,LOW,	11.38
38.57	OK,OK,22.!	35.38	OK,OK,12.1	-12.32
49.67	SOK,SOK,2:	48.31	OK,OK,11.6	-12.12
23.01	SOK,SOK,1	25.32	SOK,SOK,1(	-10.15
41.21	SOK,SOK,6:	35.39	SOK,SOK,4:	-11.1
11.67	OK,OK,4.7=	14.63	OK,OK,3.7=	12.48
35.15	SOK,SOK,3(	34.05	SOK,SOK,2!	-10.77
13.47	OK,OK,25.2	22.98	OK,OK,12.!	-10.41
12.58	OK,OK,0.5=	16.74	OK,OK,1.4=	-12.5
41.67	SOK,SOK,1	35.43	OK,OK,9.2=	-16.41
23.65	SOK,SOK,1:	32.85	OK,OK,7.4=	-15.65
48.07	SOK,SOK,6:	48.14	SOK,SOK,4:	-13.87
87.36	VLOW,VLO	83.45	VLOW,VLO	-10.66
28.45	SOK,SOK,7:	34.37	SOK,SOK,6!	-10.83
35.66	SOK,SOK,6:	27.85	SOK,SOK,3:	-15.86
58.97	VLOW,VLO	44.44	VLOW,VLO	-20.78
36.11	OK,OK,6.0=	35.38	OK,OK,3.2=	-18.09
36.42	SOK,SOK,2:	45.94	SOK,SOK,1!	-15.87
40.04	SOK,SOK,2(	45.39	SOK,SOK,1!	-14.87
45.39	SOK,SOK,4.	48.85	SOK,SOK,2.	-16.9
42.17	OK,OK,9.5=	50	LOW,LOW,	-10.93
26.09	LOW,LOW,	22.39	OK,OK,4.4=	-14.48
27.47	OK,OK,103	39.39	VLOW,VLO	-12.12
63.73	SOK,SOK,4:	62.3	OK,OK,25.5	-19.96
60.44	OK,OK,13.7	42.5	OK,OK,8.6=	-17.22
26.05	SOK,SOK,2(	30.55	SOK,SOK,1!	-10.14
55.3	SOK,SOK,1:	48.95	SOK,SOK,6:	-11.2

13.71	OK,SOK,14	15.1	VLOW,SOK	-10.45
57.89	OK,OK,8.3=	53.33	VLOW,VLO	-17.14
66	OK,OK,15.1	57.78	OK,OK,10.7	-21.77
48.35	SOK,SOK,4	45.51	SOK,SOK,2	-15.31
36.12	SOK,SOK,1	38.74	SOK,SOK,9.	-16.42
37.57	OK,OK,22.8	30.21	LOW,LOW,	-13.02
37.1	OK,OK,14.4	39.58	OK,OK,5.9=	-13.31
25.93	OK,OK,3.0=	14.29	OK,OK,2.3=	-13.36
30.66	OK,OK,3.0=	29.56	OK,OK,1.9=	-12.75
60.53	SOK,SOK,8	44.25	SOK,SOK,5	-16.68
13.09	OK,OK,1.4=	6.25	LOW,LOW,	13.42
26.83	LOW,LOW,	26.67	VLOW,VLO	-12.16
21.43	OK,OK,4.9=	20.99	OK,OK,4.4=	10.32
37.16	SOK,SOK,3	38.07	SOK,SOK,3	-13.17
37.41	SOK,SOK,9.	31.37	OK,OK,9.3=	-14.41
78.67	SOK,SOK,4	82.65	SOK,SOK,2	-11.36
29.49	SOK,SOK,5	33.17	SOK,SOK,2	-12.31
20	OK,OK,2.5=	15.6	OK,OK,3.2=	-10.99
27.84	OK,OK,5.6=	24.49	OK,OK,6.0=	-12.14
23.08	OK,OK,3.7=	17.65	OK,OK,1.9=	-11.06
23.65	SOK,SOK,1	27.46	SOK,SOK,7.	-11.19
71.16	SOK,SOK,2	56.87	OK,OK,14.4	-19.65
11.54	OK,OK,79.8	11.11	LOW,LOW,	-11.32
50.88	LOW,LOW,	28	OK,OK,3.9=	-23.4
23.8	OK,OK,19.4	27.62	OK,OK,14.5	-10.36
9.43	VLOW,VLO	14.63	LOW,LOW,	-12.03
21.23	OK,OK,7.2=	27.54	OK,OK,6.7=	-15.22
32.89	SOK,SOK,4	45.24	SOK,SOK,4	-19.21
3.33	OK,OK,1.6=	12.73	OK,OK,0.7=	13.66
31.51	OK,OK,2.5=	56.76	VLOW,VLO	-27.79
29.63	LOW,LOW,	26.92	LOW,LOW,	-13.08
36.59	VLOW,VLO	39.39	VLOW,VLO	-25.33
47.12	SOK,SOK,3	44.22	SOK,SOK,3	-15.71
63.71	SOK,SOK,4	62.79	SOK,SOK,2	-16.73
23.71	OK,OK,4.2=	26.32	OK,OK,4.9=	-13.06
63.64	OK,OK,11.4	69.23	VLOW,VLO	-23.92
16.48	OK,OK,3.9=	17.1	OK,OK,2.1=	12.24
40.76	OK,OK,4.6=	28.3	OK,OK,4.2=	-16.3
72.58	SOK,SOK,3	87.63	OK,OK,29.4	-15.88
39.06	OK,OK,11.1	33.33	OK,OK,8.3=	-10.23
39.64	OK,OK,14.8	32.36	OK,OK,5.6=	-10.87
6	OK,OK,2.1=	14.47	VLOW,VLO	-10.23
43.64	SOK,SOK,3	41.45	SOK,SOK,2	-10.43
31.81	SOK,SOK,1	30.76	SOK,SOK,6	-10.17
24.22	OK,OK,6.0=	20.78	OK,OK,4.2=	-11.58

25.31	SOK,SOK,2	31.97	SOK,SOK,1	-12.24
17.95	OK,OK,1.6=	10.77	OK,OK,1.2=	-10.47
29.13	SOK,SOK,6	34.09	SOK,SOK,4	-10.06
16.98	OK,OK,2.1=	7.14	VLOW,VLO	-12.06
41.22	LOW,LOW,	34.99	LOW,LOW,	-12.16
28.43	SOK,SOK,4	31.64	SOK,SOK,3	-14.88
30	OK,OK,7.4=	30.3	OK,OK,2.8=	-10.39
23.79	LOW,LOW,	26.95	VLOW,VLO	-12.35
37.23	SOK,SOK,2	40.43	SOK,SOK,1	-13.22
63.68	SOK,SOK,1	48.85	SOK,SOK,7	-15.82
65.54	SOK,SOK,5	58.92	SOK,SOK,3	-12.5
22.77	OK,OK,9.7=	13.93	OK,OK,7.1=	-18.35
27.78	OK,OK,6.5=	18.68	OK,OK,6.1=	-14.58
12.5	OK,OK,1.4=	8.11	LOW,LOW,	-10.3
38.22	SOK,SOK,1	31.95	OK,SOK,10	-12.78
18.26	SOK,SOK,1	23.98	SOK,SOK,1	-11.16
40.76	SOK,SOK,9	31.53	SOK,SOK,4	-12
20.13	OK,OK,6.2=	19.39	OK,OK,3.8=	-10.36
14.29	OK,OK,3.7=	17.33	OK,OK,5.6=	-12.4
28.48	SOK,SOK,3	26.03	OK,OK,35.7	-14.39
32.65	SOK,SOK,2	34.04	SOK,SOK,1	-13.36
42.89	SOK,SOK,2	28.5	SOK,SOK,8	-18.13
54.33	SOK,SOK,5	57.13	SOK,SOK,4	-16.97
47.46	OK,OK,0.2=	49.43	OK,OK,0.7=	19.82
55.89	SOK,SOK,2	50	SOK,SOK,1	-19.86
27.03	VLOW,VLO	33.96	VLOW,VLO	-26.26
29.41	SOK,SOK,1	29.87	SOK,SOK,9	-11.52
12.24	OK,OK,1.4=	18.03	OK,OK,0.5=	-12.24
26.98	OK,OK,7.4=	21.84	OK,OK,3.2=	-13.81
0	VLOW,VLO	0	LOW,LOW,	10.99
48.33	OK,OK,26.1	38.95	OK,OK,20.9	18.59
30.65	OK,OK,9.0=	24.01	OK,OK,3.9=	-15.03
9.76	OK,OK,4.9=	3.5	OK,OK,0.5=	11.52
27.73	OK,OK,4.9=	34.06	OK,OK,3.9=	-14.24
50	OK,OK,9.7=	25	OK,OK,7.7=	-18.8
35.56	SOK,SOK,1	32.89	OK,OK,13.7	-10.04
78.01	SOK,SOK,2	80.76	OK,OK,13.9	-13.71
30.34	OK,OK,3.9=	34.43	OK,OK,5.6=	-15.86
39.97	SOK,SOK,8	35.12	SOK,SOK,5	-10.53
32.04	OK,OK,13.7	30.73	LOW,LOW,	-14.33
44.55	OK,OK,8.7=	49.34	LOW,LOW,	-18.23
33.03	SOK,SOK,1	30	OK,OK,6.0=	-13.82
100	LOW,LOW,	100	LOW,LOW,	-20.38
2.97	SOK,SOK,1.	2.52	OK,OK,0.7=	20.38
10	OK,OK,5.3=	11.48	OK,OK,3.3=	11.33

13.33	OK,OK,8.0=	22.73	LOW,LOW,	-13.86
34.78	OK,OK,5.8=	45	VLOW,VLO	-19.26
17.32	OK,OK,2.8=	16.51	OK,OK,0.7=	-12.25
40.66	SOK,SOK,4	39.4	SOK,SOK,3	-14.35
12.29	LOW,LOW,	12.45	VLOW,VLO	-10.85
36.48	SOK,SOK,7.	34.62	OK,SOK,5.3	-13.81
12.72	OK,OK,2.1=	23.08	VLOW,VLO	-13.02
25.48	SOK,SOK,1	23.67	SOK,SOK,6.	-13
77.63	SOK,SOK,1	68.34	SOK,SOK,1	-11.18
3.23	LOW,LOW,	3.7	VLOW,VLO	11.08
42.86	LOW,LOW,	56.76	VLOW,VLO	-16
43.21	OK,OK,183	37.16	OK,OK,115	-13.21
33.74	SOK,SOK,1	28.79	OK,OK,6.0=	-12.92
44.97	SOK,SOK,2	49.77	SOK,SOK,1	-21.88
90.45	SOK,SOK,6	89.37	SOK,SOK,4	-10.74
73.45	SOK,SOK,1	68.57	OK,SOK,10	13.08
36.66	SOK,SOK,4	27.11	SOK,SOK,2	-15.58
44.56	SOK,SOK,1	39.35	SOK,SOK,8	-11.22
25.64	OK,OK,4.9=	22.85	OK,OK,3.9=	-11.71
27.66	LOW,LOW,	17.24	VLOW,VLO	-11.25
31.53	OK,OK,9.3=	35.85	LOW,LOW,	-15.14
42.07	SOK,SOK,1	40.2	OK,OK,4.6=	-16.58
35.47	SOK,SOK,4	40.15	SOK,SOK,3	-11.31
38.39	SOK,SOK,2	43.26	SOK,SOK,1	-11.67
0	OK,OK,0.0=	0	OK,OK,0.0=	11.2
25.37	OK,OK,7.9=	23.91	OK,OK,3.7=	-10.48
29.91	SOK,SOK,1	30.14	OK,OK,10.4	-11.44
24.24	OK,OK,2.1=	23.36	VLOW,VLO	-10.07
38.65	OK,OK,11.7	36.98	OK,OK,12.0	-16.51
16.13	OK,OK,2.8=	20.83	LOW,LOW,	-12.44
53.71	SOK,SOK,5	53.91	SOK,SOK,3	-10.47
27.37	SOK,SOK,2	22.89	SOK,SOK,1	-12.5
29.23	OK,OK,14.8	34.94	OK,OK,9.5=	-10.72
80.07	SOK,SOK,4	73.37	SOK,SOK,2	-12.92
6.98	OK,OK,2.5=	6.25	LOW,LOW,	10.88
21.47	OK,OK,0.7=	17.89	LOW,LOW,	-10.32
48.7	SOK,SOK,9	39.91	SOK,SOK,6	-12.8
34.94	SOK,SOK,8	30.38	SOK,SOK,6	-10.39
22.91	SOK,SOK,2	22.43	SOK,SOK,1	-10.15
66.78	SOK,SOK,1	63.02	SOK,SOK,1	-16.71
61.7	SOK,SOK,2	52.83	OK,OK,13.2	-21.55
55.13	SOK,SOK,3	32.04	OK,OK,15.6	-21.29
56.38	SOK,SOK,4	49	SOK,SOK,2	-20.35
24.87	SOK,SOK,1	22.46	SOK,SOK,1	-11.18
39.36	SOK,SOK,2	42.27	SOK,SOK,1	-14.61

40.21	OK,OK,1.9=	48.65	LOW,LOW,	-16.22
43.02	SOK,SOK,6	45.69	SOK,SOK,6	-17.45
63.12	SOK,SOK,1	63.03	SOK,SOK,6	-12.72
66.67	LOW,LOW,	75.76	LOW,LOW,	-26.77
26.76	OK,OK,3.3=	23.08	VLOW,VLO	-11.61
29.67	SOK,SOK,1	26.07	SOK,SOK,9.	-13.08
64.71	SOK,SOK,1	61.62	OK,OK,10.2	-16.6
15.94	OK,OK,3.0=	27.78	VLOW,VLO	-16.92
33.84	OK,OK,3.7=	28.06	LOW,LOW,	-15.53
59.16	SOK,SOK,3	58.8	SOK,SOK,2	-10.07
22.74	SOK,SOK,1	21.37	SOK,SOK,1	-12.88
54.95	OK,OK,16.7	51.58	OK,OK,10.2	-21.86
36	OK,OK,9.8=	30.16	OK,OK,10.4	-13.04
47.25	VLOW,VLO	29.2	LOW,LOW,	-19.81
52.37	SOK,SOK,4	47.1	SOK,SOK,2	-13.09
16.67	OK,OK,2.1=	18.92	LOW,LOW,	-14.51
46.02	SOK,SOK,1	45.33	SOK,SOK,9	-10.67
22.62	SOK,SOK,1	20.3	SOK,SOK,1	-11.49
61.88	SOK,SOK,5	59.98	SOK,SOK,4	-10.68
35.31	SOK,SOK,5	28.51	SOK,SOK,2	-11.37
40.59	SOK,SOK,6	36.93	SOK,SOK,3	-11.46
55.88	OK,OK,6.5=	69.81	OK,OK,3.7=	-22.78
52.5	OK,OK,10.7	61.67	OK,OK,11.8	-22.01
30.72	OK,OK,4.4=	28.88	VLOW,VLO	-15.67
43.33	SOK,SOK,7.	32.31	OK,OK,5.8=	-13.77
23.69	OK,OK,8.8=	27.16	LOW,LOW,	-14.81
18.99	OK,OK,19.8	18.19	OK,OK,16.4	-10.18
47.79	SOK,SOK,8	57.4	SOK,SOK,6	-11.86
18.71	OK,OK,2.8=	13.43	OK,OK,4.4=	-13.47
54.01	SOK,SOK,7	52.76	SOK,SOK,5	-10.32
9.98	OK,OK,1.6=	19.12	OK,OK,1.2=	-12.15
18	OK,OK,3.0=	13.92	OK,OK,4.4=	-11.15
53.58	SOK,SOK,2	53.84	OK,OK,23.4	-12.91
56.44	SOK,SOK,4	61.68	SOK,SOK,3	-15
10.26	OK,OK,3.7=	15.17	OK,OK,0.5=	-10.71
80.33	OK,OK,4.6=	76	VLOW,VLO	13.79
30.46	SOK,SOK,3	30.1	OK,OK,16.2	-12.71
6.9	OK,OK,0.2=	12.5	OK,OK,1.9=	12.6
31.03	OK,OK,5.6=	17.12	OK,OK,3.5=	-15.49
45.71	VLOW,VLO	43	VLOW,VLO	-18.68
38.65	SOK,SOK,3	40.82	SOK,SOK,2	-11.82
54.06	SOK,SOK,5	55.82	SOK,SOK,2	-14.71
20.38	SOK,SOK,1	23.88	OK,OK,9.3=	-11.93
33.33	OK,OK,3.7=	31.87	OK,OK,1.9=	-15.1
70.37	SOK,SOK,7	71.43	SOK,SOK,4	-10.85

45.7	SOK,SOK,4	45.89	SOK,SOK,3	-13.78
82.91	SOK,SOK,2	78.58	SOK,SOK,1	-10.34
31.06	SOK,SOK,6	27.77	SOK,SOK,5	-10.5
42.47	SOK,SOK,2	43.05	SOK,SOK,2	-11.13
24.09	OK,OK,14.1	17.24	OK,OK,7.4=	-13.79
60.63	SOK,SOK,0.	65.32	SOK,SOK,0.	-11.5
36.39	SOK,SOK,7	39.38	SOK,SOK,5	-11.92
53.46	SOK,SOK,7	60.14	SOK,SOK,4	-15.58
50	SOK,SOK,8	43.38	SOK,SOK,5	-10.4
42.65	OK,OK,19.0	40	OK,OK,12.8	-14.67
61.97	SOK,SOK,1	64.42	OK,OK,17.2	-15.84
24.03	SOK,SOK,1	27.65	SOK,SOK,1	-13.26
44.02	SOK,SOK,5	42.29	SOK,SOK,3	-10.96
20.88	OK,OK,5.1=	10.53	LOW,LOW,	15.65
36.53	SOK,SOK,2	40.86	SOK,SOK,1	-15.35
62.99	SOK,SOK,4	54.01	OK,OK,22.6	-12.82
28.12	SOK,SOK,4	29.14	OK,OK,34.0	-10.97
22.77	OK,OK,10.6	19.62	OK,OK,4.8=	-11.83
19.23	OK,OK,5.7=	19.23	OK,OK,3.8=	-12.39
63.67	SOK,SOK,3	51.92	SOK,SOK,1	-17.07
46.34	SOK,SOK,1	44.32	SOK,SOK,8	-12.33
31.7	SOK,SOK,1	27.12	SOK,SOK,1	-10.72
80.43	OK,OK,14.6	92.31	OK,OK,6.5=	-23.78
37.9	SOK,SOK,9.	43.51	OK,OK,3.7=	-16.15
26.32	VLOW,VLO	26.67	VLOW,VLO	-17.51
41.01	OK,OK,30.4	42.5	OK,OK,12.1	-10.86
36.32	SOK,SOK,1	45.07	SOK,SOK,8.	-14.75
43.23	SOK,SOK,1	46.55	OK,OK,66.8	-21.39
22.54	SOK,SOK,2	31.9	SOK,SOK,1	-15.57
78.62	SOK,SOK,1	72.02	SOK,SOK,1	-14.59
20.49	OK,OK,6.3=	25.45	OK,OK,2.1=	-10.55
44.17	SOK,SOK,8	41.26	SOK,SOK,6	-11.93
54.57	SOK,SOK,8	38.93	OK,SOK,43.	-14.69
22.84	OK,OK,5.8=	28.68	LOW,LOW,	22.87
51.9	SOK,SOK,3	50	SOK,SOK,2	-12.26
32.09	SOK,SOK,7	32.56	SOK,SOK,6	-10.11
37.25	LOW,LOW,	50.68	OK,OK,3.2=	-11.83
60.42	VLOW,VLO	61.85	VLOW,VLO	-16.68
18.1	VLOW,VLO	13.73	OK,OK,1.2=	-11.66
73.91	OK,OK,9.7=	90.24	LOW,LOW,	17.93
78.98	SOK,SOK,1	85.03	SOK,SOK,4	-10.63
43.17	OK,OK,6.5=	36.84	LOW,LOW,	-13.5
60.62	SOK,SOK,1	63.43	OK,OK,10.4	-12.16
21.32	OK,OK,NA=	20.75	OK,OK,NA=	-12.36
30.8	SOK,SOK,2.	23.33	SOK,SOK,2.	-12.9

31.72	SOK,SOK,5	28.4	SOK,SOK,3	-10.66
43.47	SOK,SOK,1	42.63	SOK,SOK,1	-13.03
21.43	VLOW,VLO	20	VLOW,VLO	-15.68
53.23	OK,OK,11.8	65.43	LOW,LOW,	-14.71
78.71	SOK,SOK,5	75.71	SOK,SOK,3	-11.5
35.54	OK,OK,8.6=	26.58	OK,OK,8.8=	-14.07
12.2	LOW,LOW,	10.2	OK,OK,1.0=	-11.2
20.99	OK,OK,6.0=	17.91	OK,OK,2.8=	-11.03
25.84	SOK,SOK,1	28.96	OK,OK,8.3=	-12.09
25.94	SOK,SOK,2	23.36	SOK,SOK,2	-10.34
45.24	SOK,SOK,2	44.65	SOK,SOK,1	-17.07
42.47	SOK,SOK,2	33.33	SOK,SOK,1	-14.15
46.09	OK,OK,15.5	46.94	VLOW,VLO	-16.7
24.82	OK,OK,10.4	22.33	OK,OK,5.8=	-14.99
15.79	OK,OK,1.4=	6.9	OK,OK,0.9=	-11.34
37.08	OK,SOK,9.6	41.42	OK,OK,9.3=	-10.46
63.3	SOK,SOK,2	66.36	OK,OK,10.7	-20.99
10.77	OK,OK,1.4=	10.53	LOW,LOW,	10.54
24.9	SOK,SOK,4	22.79	OK,OK,30.9	-13
22.97	SOK,SOK,1	31.08	SOK,SOK,1	-11.7
61.54	SOK,SOK,5	60.39	SOK,SOK,3	-10.07
40.3	SOK,SOK,0.	50.41	SOK,SOK,0.	-12.44
29.26	SOK,SOK,1	37.51	SOK,SOK,1	-11.07
82.4	OK,OK,35.0	93.44	LOW,LOW,	12.08
37.53	SOK,SOK,1	35.79	OK,OK,14.8	-11.47
78.55	SOK,SOK,4	82.93	SOK,SOK,2	-17.58
19.74	OK,OK,4.6=	14.89	OK,OK,2.8=	-14.73
91.3	VLOW,VLO	100	VLOW,VLO	-15.19
81.58	OK,OK,28.7	77.78	LOW,LOW,	-13.98
2.36	OK,OK,2.3=	9.26	OK,OK,3.0=	11.22
17.39	OK,OK,11.0	19.05	OK,OK,8.0=	-10.88
27.45	OK,OK,8.1=	25.25	OK,OK,4.4=	-14.74
25.39	OK,OK,4.2=	27.72	LOW,LOW,	-15.18
57.46	SOK,SOK,2	57.86	SOK,SOK,2	-12.86
66.97	LOW,LOW,	60.41	LOW,LOW,	-26.67
21.08	SOK,SOK,1	21.37	OK,OK,9.3=	-14.35
39.07	SOK,SOK,9	42.53	SOK,SOK,6	-11.56
59.21	OK,OK,65.3	55.61	LOW,LOW,	13.2
21.43	OK,OK,3.0=	25	LOW,LOW,	-14.01
26.32	OK,OK,7.2=	26.83	OK,OK,7.0=	-11.09
25.45	OK,OK,5.5=	31.76	LOW,LOW,	-13.91
52.84	SOK,SOK,2	41.08	OK,OK,19.5	-14.04
30.32	SOK,SOK,1	32.04	OK,OK,7.9=	-12.8
61.36	SOK,SOK,2	65.92	SOK,SOK,2	-13.83
69.22	SOK,SOK,5	63.36	SOK,SOK,3	-13.84

44.72	OK,OK,11.8	42.86	OK,OK,8.9=	-12.42
29.55	OK,OK,9.3=	39.31	OK,OK,6.5=	-17.45
33.96	SOK,SOK,7	31.39	SOK,SOK,4	-10.48
45.42	SOK,SOK,7	36.36	SOK,SOK,4	-12.73
63.87	SOK,SOK,3	62.28	SOK,SOK,3	-13.59
33.58	OK,OK,10.0	31.07	OK,OK,5.6=	-11.31
31.11	OK,OK,6.7=	34.62	LOW,LOW,	-11.75
37.35	OK,OK,3.5=	33.33	VLOW,VLO	-16.9
34.55	LOW,LOW,	44.44	LOW,LOW,	-16.87
73.05	OK,OK,8.6=	76.83	LOW,LOW,	-15.04
34.62	LOW,LOW,	26.88	VLOW,VLO	-17.72
14.93	OK,OK,3.8=	26.03	OK,OK,2.2=	-13.17
14.06	OK,OK,4.5=	17.42	VLOW,LOW	-12.89
38.29	SOK,SOK,1	33.86	SOK,SOK,1	-12.05
39.13	OK,OK,4.2=	28.57	LOW,LOW,	-14.67
65.45	OK,OK,15.3	69.77	OK,OK,5.3=	-18.41
79.12	OK,OK,26.4	75.69	OK,OK,20.6	-11.66
32.62	OK,OK,5.1=	48.79	VLOW,VLO	-17.75
56.04	SOK,SOK,6	64.65	SOK,SOK,5	-13.42
33.27	SOK,SOK,1	25.19	OK,OK,5.6=	-16.35
56.28	SOK,SOK,5	58.69	SOK,SOK,5	-13.03
15.25	OK,OK,34.3	13.25	OK,OK,16.4	-10.34
15.56	LOW,LOW,	16.28	LOW,LOW,	-12.98
35.56	OK,OK,7.2=	27.92	OK,OK,7.4=	-12.79
42.32	SOK,SOK,1	39.89	SOK,SOK,1	-11.11
48.07	SOK,SOK,4	42.68	SOK,SOK,3	-13
16.06	OK,OK,0.9=	15.58	OK,OK,0.9=	-11.1
31.21	SOK,SOK,6	32.75	SOK,SOK,4	-10.1
20.41	OK,OK,5.3=	27.59	OK,OK,5.0=	-12.48
38.04	LOW,OK,6.	34.23	VLOW,OK,4	-10.55
7.41	OK,OK,39.2	1.96	OK,OK,20.3	12.68
27.71	OK,OK,1.2=	25.49	LOW,LOW,	-12.56
41.29	OK,OK,6.0=	27.73	OK,OK,6.5=	-14.7
23.6	SOK,SOK,1	28.11	SOK,SOK,1	-11.67
32.56	OK,OK,6.3=	36.59	VLOW,LOW	-10.95
34.09	OK,OK,9.3=	31.51	OK,OK,4.4=	-15.42
29.29	OK,OK,5.8=	25.53	LOW,LOW,	-12.98
54.19	SOK,SOK,7	60.52	SOK,SOK,6	-13.9
27.85	OK,OK,11.1	47.44	OK,OK,10.4	-17.91
32.78	OK,OK,7.7=	29.62	OK,OK,2.5=	-15.17
38.18	OK,OK,15.6	41.82	OK,OK,10.9	-10.66
35.67	SOK,SOK,2	43.47	SOK,SOK,1	-12.8
23.38	OK,OK,3.7=	24.61	OK,OK,1.9=	-18.36
5.38	OK,OK,0.0=	3.03	OK,OK,0.0=	10.31
43.4	LOW,LOW,	23.08	VLOW,VLO	-25.25

53.35	SOK,SOK,2(	50	LOW,LOW,	-23.23
34.49	SOK,SOK,2	30.47	SOK,SOK,2(	-13.03
25	LOW,LOW,	24.32	VLOW,VLO	-16.54
19.05	OK,OK,0.7=	25.93	OK,OK,0.2=	-19.26
13.96	OK,OK,1.4=	15.74	OK,OK,1.2=	-12.93
23.08	OK,OK,8.6=	17.86	LOW,LOW,	-14.47
64.34	SOK,SOK,8	62.93	SOK,SOK,5	-12.2
21.31	OK,OK,2.8=	10.2	OK,OK,1.4=	12.17
23.81	OK,OK,6.5=	37.14	VLOW,VLO	-19.87
86.21	OK,OK,12.1	87.76	OK,OK,7.2=	-11.68
9.71	LOW,OK,0.	19.08	VLOW,VLO	-10.41
37.5	SOK,SOK,3	31.55	SOK,SOK,1	14.53
15.56	LOW,LOW,	9.09	LOW,LOW,	-10.32
8.33	LOW,LOW,	2.78	LOW,LOW,	13.53
38.46	OK,OK,25.4	29.17	LOW,LOW,	-11.1
94.74	OK,OK,4.9=	92.86	VLOW,VLO	-17.78
32.13	SOK,SOK,5	32.87	SOK,SOK,3	-10.62
81.63	SOK,SOK,3	68.81	SOK,SOK,2(	-21.82
15.87	OK,OK,3.2=	19.69	LOW,LOW,	-10.3
53.26	SOK,SOK,6	60.85	SOK,SOK,4	-10.29
28.59	VLOW,OK,2	21.17	VLOW,LOW	-13.34
14.54	OK,OK,9.4=	24.25	LOW,LOW,	-14.31
71.84	SOK,SOK,2	65.48	SOK,SOK,1	-12.11
17.12	OK,OK,2.5=	15	OK,OK,0.2=	12.32
81.36	OK,OK,66.8	91.04	LOW,LOW,	-13.29
92.66	SOK,SOK,5	81.82	SOK,SOK,4	-14.72
10.95	OK,OK,1.9=	13.58	VLOW,VLO	-10.06
58.84	SOK,SOK,1(	52.51	SOK,SOK,9	-14.35
50.22	SOK,SOK,2	41.41	SOK,SOK,1	-12.27
35.95	SOK,SOK,1	35.08	SOK,SOK,1	-10.07
54.84	OK,OK,5.1=	51.22	OK,OK,6.3=	-17.05
49.74	SOK,SOK,1	50.36	SOK,SOK,1	-16.93
18.37	OK,OK,3.0=	21.95	LOW,LOW,	-12.99
56.39	SOK,SOK,3.	63.22	OK,OK,4.9=	-12.07
49.69	VLOW,VLO	52.45	LOW,LOW,	-17.05
25.37	SOK,SOK,7.	34.32	OK,OK,9.7=	-14
54.8	SOK,SOK,2(	51.71	SOK,SOK,2	-15.14
32.28	SOK,SOK,1	29.15	SOK,SOK,1	-11.91
61.8	OK,OK,9.0=	50	VLOW,VLO	-22.84
45.45	OK,OK,30.5	42.86	VLOW,VLO	18.36
74.53	SOK,SOK,5	72.23	SOK,SOK,3	-15.02
3	SOK,SOK,2.	9.96	OK,SOK,2.1	13.96
37.84	SOK,SOK,1	33.87	SOK,SOK,1	-10.2
21.88	OK,OK,2.5=	14.29	LOW,LOW,	-13.8
45.45	OK,OK,58.9	34.62	LOW,LOW,	-17.07

87.8	SOK,SOK,14	89.87	OK,OK,78.8	-12.43
39.63	SOK,SOK,15	42.22	OK,OK,8.1=	18.16
38.81	SOK,SOK,2.	36.67	SOK,SOK,0.	-10.83
20.64	OK,OK,0.7=	15.67	OK,OK,0.7=	-11.04
45.59	OK,OK,60.3	39.62	OK,OK,43.8	-14.45
34.12	VLOW,SOK	58	VLOW,OK,3	-29.64
47.31	SOK,SOK,31	55.41	SOK,SOK,26	-15.48
48.59	SOK,SOK,48	47.74	SOK,SOK,34	-14.28
39.67	SOK,SOK,19	38.01	SOK,SOK,13	-13.22
28.96	OK,OK,7.0=	12.81	OK,OK,4.6=	14.88
25.94	LOW,LOW,	24.32	VLOW,VLO	-11.38
38.24	OK,OK,20.8	39.39	OK,OK,17.0	-12.6
19.15	OK,OK,0.9=	15.56	OK,OK,0.7=	11.49
42.78	OK,OK,12.3	37.08	LOW,LOW,	-18.95
41	SOK,SOK,42	34.62	SOK,SOK,24	-10.2
53.99	SOK,SOK,73	48.2	SOK,SOK,46	-10.6
61.54	LOW,LOW,	56.76	VLOW,VLO	-14.05
27.03	SOK,SOK,24	20.97	SOK,SOK,12	-10.62
45.7	SOK,SOK,18	49.09	OK,OK,14.3	-13.04
20	OK,OK,4.9=	28.57	LOW,LOW,	-16.81
19.05	LOW,LOW,	15	LOW,LOW,	-12.74
30.61	OK,OK,8.6=	47.22	LOW,LOW,	-19.21
23.4	OK,OK,7.2=	16.13	OK,OK,4.9=	-11.56
41.3	OK,OK,13.4	38.32	OK,OK,12.5	-10.97
22.83	SOK,SOK,10	19.55	SOK,SOK,7.	-12.31
82.19	SOK,SOK,23	83.67	OK,OK,22.5	-11.06
37.33	SOK,SOK,10	38.32	OK,OK,8.8=	-18.75
45.45	SOK,SOK,28	42.64	OK,OK,22.9	-11.96
42.94	SOK,SOK,61	60.19	SOK,SOK,39	-23.02
31.58	SOK,SOK,39	29.14	SOK,SOK,27	-13.92
24.73	OK,OK,0.0=	26.98	OK,OK,0.5=	-12.35
59.02	SOK,SOK,26	49.94	SOK,SOK,13	-13.54
34.84	SOK,SOK,33	38.23	SOK,SOK,30	-10.32
14.29	OK,OK,3.0=	24.14	OK,OK,1.2=	-11.61
13.33	VLOW,VLO	15.38	VLOW,VLO	-14.36
17	LOW,LOW,	15.63	VLOW,VLO	-11.64
45.43	SOK,SOK,30	42.47	SOK,SOK,27	-13.25
90.75	SOK,SOK,60	94.16	SOK,SOK,35	-12.67
29.91	OK,OK,8.6=	29.03	OK,OK,13.0	16.86
46.97	LOW,LOW,	36.82	VLOW,VLO	22.05
36.39	SOK,SOK,34	36.92	SOK,SOK,23	-11.96
37.7	LOW,LOW,	68	VLOW,VLO	-28.72
29.88	OK,OK,3.7=	15.31	OK,OK,6.0=	-12.47
20.29	OK,OK,4.4=	22.68	OK,OK,4.4=	-12.34
68.35	SOK,SOK,78	65.6	SOK,SOK,58	-15.14

29.33	SOK,SOK,2	26.63	SOK,SOK,1	-11.48
90.83	LOW,LOW,	89.96	LOW,LOW,	-25.36
34.39	SOK,SOK,8	28.63	SOK,SOK,5	-10.48
29.23	OK,OK,3.7=	32.31	OK,OK,4.2=	-21.36
50.82	OK,OK,17.1	58.49	LOW,LOW,	-24.04
44.9	SOK,SOK,4	32.29	SOK,SOK,1	-13.71
31.52	SOK,SOK,5	26.21	SOK,SOK,3	-10.76
57.73	SOK,SOK,9	59.76	SOK,SOK,5	-11.24
92.21	VLOW,VLO	95.24	LOW,LOW,	-12.89
14.45	OK,OK,5.3=	15.52	OK,OK,3.5=	-10.02
20.51	OK,OK,19.9	12	OK,OK,11.1	-12.5
40.74	LOW,LOW,	25.93	VLOW,VLO	-17.46
48.35	OK,OK,11.6	41.18	VLOW,VLO	-24.06
21.74	OK,OK,0.9=	32.08	LOW,LOW,	-17.42
20.86	SOK,SOK,1	22.62	SOK,SOK,1	-13.82
32.34	OK,OK,9.0=	27.77	OK,OK,3.9=	-17.4
16.13	OK,OK,0.7=	16	OK,OK,1.6=	-10.7
45.71	SOK,SOK,6	39.43	SOK,SOK,4	-10.24
19.63	OK,OK,31.8	17.46	OK,OK,17.0	13.23
25.14	SOK,SOK,1	22.73	SOK,SOK,7.	-11.95
33.8	OK,OK,29.7	34.25	OK,OK,17.1	-10.43
62.16	OK,OK,10.9	66.67	OK,OK,6.0=	-27.77
21.21	OK,OK,3.7=	24.32	VLOW,VLO	-14.56
34.65	OK,OK,14.3	33.33	OK,OK,8.1=	16.27
27.16	SOK,SOK,5	24.31	SOK,SOK,3	-12.43
28.44	OK,OK,7.4=	31.34	OK,OK,4.6=	-11.55
36.72	OK,OK,9.5=	22.95	OK,OK,6.5=	-16.81
35.85	OK,OK,2.8=	41.96	VLOW,VLO	-26.07
46.2	SOK,SOK,3	53.39	SOK,SOK,1	-12.98
63.08	OK,OK,12.5	61.54	LOW,LOW,	-15.58
28.35	SOK,SOK,3.	33.95	SOK,SOK,1.	10.4
61.56	SOK,SOK,4	61.15	SOK,SOK,3	-15.34
72.92	SOK,SOK,2	56.93	OK,OK,11.8	-18.5
34.59	SOK,SOK,4	30.98	SOK,SOK,3	-10.85
25.06	LOW,LOW,	11.92	LOW,LOW,	-14.47
16.49	OK,OK,0.5=	15.05	OK,OK,0.2=	17.55
26.9	SOK,SOK,3	17.65	SOK,SOK,1	-11.31
36.03	SOK,SOK,2	24.56	SOK,SOK,2	-12.21
25.56	SOK,SOK,1	23.08	SOK,SOK,8.	-10.58
20.41	OK,OK,16.4	12.1	VLOW,VLO	-13.08
17.75	LOW,LOW,	18.48	LOW,LOW,	-12.65
39.84	VLOW,VLO	25.23	LOW,LOW,	-14.97
24.04	SOK,SOK,1	19.28	SOK,SOK,8.	-10.13
37.38	SOK,SOK,4	35.38	SOK,SOK,3	-10.23
38.1	SOK,SOK,2	36.33	SOK,SOK,1	-12.94

40.74	OK,OK,26.(	43.31	OK,OK,20.3	-15.91
55.28	LOW,LOW,	28.64	LOW,LOW,	-28.84
32.27	OK,OK,3.0=	25.84	OK,OK,3.9=	-10.22
2.56	LOW,LOW,	3.7	OK,OK,1.4=	11.96
40.55	LOW,LOW,	33.33	LOW,LOW,	14
1.69	OK,OK,1.4=	0	OK,OK,1.4=	10.81
20.83	OK,OK,7.2=	29.39	OK,OK,5.6=	-12.21
52.33	VLOW,VLO	44.68	VLOW,VLO	-20.55
26.58	OK,OK,4.9=	21.74	LOW,LOW,	-15.23
17.74	OK,OK,4.9=	18.37	OK,OK,5.6=	-10.67
16.03	OK,OK,7.8=	18.03	OK,OK,2.2=	-10.6
28.95	OK,OK,66.(	33.33	LOW,LOW,	-13.4
14.16	OK,OK,7.9=	17.39	OK,OK,8.8=	16.17
17.65	OK,OK,40.7	27.87	OK,OK,19.4	-12.54
22.26	SOK,SOK,1	28.48	OK,OK,11.1	-16.7
50.02	SOK,SOK,3	45.19	SOK,SOK,1	-11.14
25.93	OK,OK,1.4=	20	VLOW,VLO	-16.2
32.8	SOK,SOK,1	29.71	SOK,SOK,8	-10.98
74.97	SOK,SOK,6	73.87	SOK,SOK,4	-10.81
28.97	SOK,SOK,4	23.57	SOK,SOK,2	-10.64
26.09	OK,OK,7.9=	31.11	OK,OK,5.6=	-12.84
28.17	OK,OK,2.8=	40.43	LOW,LOW,	-22.09
64.44	SOK,SOK,2	53.55	SOK,SOK,2	-16.07
42.04	VLOW,VLO	38.46	VLOW,VLO	-28.32
47.68	SOK,SOK,9	45.96	SOK,SOK,7	-14.73
93.62	OK,OK,18.3	100	LOW,LOW,	-10.62
55.33	SOK,SOK,1	44.89	SOK,SOK,9	-13.95
36.28	SOK,SOK,3	40.48	SOK,SOK,2	-10.54
51.45	SOK,SOK,4	47.65	SOK,SOK,3	-11.95
69.74	SOK,SOK,7	67.24	SOK,SOK,4	-11.41
42.64	OK,OK,14.1	33.33	OK,OK,10.(	-10.93
34.9	OK,OK,46.1	26.89	OK,OK,33.4	-14.32
41	SOK,SOK,2	35.88	OK,OK,14.6	-11.19
12.07	OK,OK,2.1=	22.06	LOW,LOW,	-14.45
44	OK,OK,9.5=	42.86	VLOW,VLO	-11.47
33.82	OK,OK,7.2=	37.69	OK,OK,6.5=	-19.23
22.15	SOK,SOK,1	14.29	SOK,SOK,9.	-10.48
22.86	OK,OK,5.3=	31.43	OK,OK,5.1=	-12.32
50.7	SOK,SOK,1	49.18	OK,OK,11.6	-21.48
36.02	SOK,SOK,2	32.78	SOK,SOK,2	-10.81
35.08	SOK,SOK,1	36.13	SOK,SOK,1	-15.95
69.14	SOK,SOK,4	60.37	SOK,SOK,2	-16.2
37.74	SOK,SOK,7.	33.12	OK,SOK,5.3	-16.41
96.36	LOW,LOW,	93.44	LOW,LOW,	-10.34
44.72	OK,OK,9.7=	45.88	OK,OK,3.7=	-18

36.51	SOK,SOK,2	27.67	SOK,SOK,2	-13.14
29.33	SOK,SOK,3	24.86	SOK,SOK,1	-10.2
43.14	SOK,SOK,4	42.74	SOK,SOK,2	-14
51.92	SOK,SOK,4	46.03	SOK,SOK,3	-11.53
37.64	OK,OK,8.3=	38.54	OK,OK,4.9=	-16.04
15.94	SOK,SOK,8.	13.4	OK,OK,5.6=	-10.33
48.28	SOK,SOK,9	38.77	SOK,SOK,6	-11.97
54.58	SOK,SOK,5	54.47	SOK,SOK,3	-10.05
37.45	SOK,SOK,3	41.27	SOK,SOK,3	-12.45
30	SOK,SOK,2	27.27	OK,OK,17.4	-10.16
46.09	SOK,SOK,5	45.11	SOK,SOK,5	-11.51
30.65	SOK,SOK,4	25.72	SOK,SOK,3	-12.34
29.25	OK,OK,7.2=	31.2	OK,OK,3.9=	-11.43
48.15	VLOW,VLO	29.63	LOW,LOW,	-25.19
36.1	OK,OK,8.8=	29.3	OK,OK,10.2	-12.25
1.75	OK,OK,1.9=	4.35	VLOW,VLO	15.36
41.18	SOK,SOK,4	36.86	SOK,SOK,2	-14.7
21.95	SOK,SOK,1	18.02	SOK,SOK,9	-12.59
71.67	SOK,SOK,4	66.84	SOK,SOK,2	-18.63
43.26	SOK,SOK,2	48.37	OK,SOK,20	-16.05
29.91	OK,SOK,21	35.01	OK,SOK,13	-11.82
44.1	OK,OK,8.6=	31.17	LOW,LOW,	-18.94
37.99	OK,OK,10.4	46.16	VLOW,VLO	-20.35
33.01	OK,OK,11.8	32.51	LOW,LOW,	-11.71
61.28	LOW,LOW,	55.76	VLOW,VLO	-13.99
19.78	OK,SOK,8.8	33.05	OK,OK,3.5=	-15.44
40.6	SOK,SOK,5	40.2	SOK,SOK,3	-13.01
18.4	OK,OK,21.6	17.42	OK,OK,15.4	-12.18
31.78	SOK,SOK,3	30.59	SOK,SOK,2	-12.39
35.56	OK,OK,1.2=	38.1	OK,OK,2.3=	13.18
21.91	OK,OK,7.9=	19.63	OK,OK,6.5=	-12.32
56.23	SOK,SOK,2	53.42	SOK,SOK,1	-19.17
78.31	OK,OK,21.1	78.42	LOW,LOW,	-22.68
29.27	SOK,SOK,1	30.8	SOK,SOK,2	-10.29
37.23	SOK,SOK,4	36.44	SOK,SOK,3	-11.15
27.15	SOK,SOK,2	29.31	OK,OK,9.7=	-15.32
9.09	OK,OK,0.2=	11.11	LOW,LOW,	-10.1
14.21	OK,OK,3.7=	15.22	OK,OK,1.2=	-13.5
17.28	SOK,SOK,2	20.86	OK,OK,23.3	-10.48
59.24	SOK,SOK,9	55.29	SOK,SOK,6	-11.69
64.84	SOK,SOK,1	59.07	SOK,SOK,1	-19.17
49.15	SOK,SOK,1	53.23	OK,OK,11.6	-15.31
19.19	OK,SOK,10	16.85	OK,OK,8.8=	-11.72
32.5	OK,OK,25.2	24.39	OK,OK,31.5	-18.31
9.47	OK,OK,3.1=	17.07	LOW,LOW,	-11.49

40.12	SOK,SOK,6	37.55	SOK,SOK,4	-10.73
45.52	SOK,SOK,3	36.63	SOK,SOK,2	-11.29
27.27	OK,OK,4.2=	13.51	LOW,LOW,	-16.55
57.58	LOW,LOW,	64.1	VLOW,VLO	-11.83
46.99	OK,OK,6.5=	41.18	VLOW,VLO	-12.75
39.01	OK,OK,36.	38.75	OK,OK,25.	-13.38
26.3	SOK,SOK,1	33.59	OK,OK,8.6=	-14.76
60.15	SOK,SOK,1	50.1	LOW,LOW,	14.35
43.62	SOK,SOK,2	42.86	SOK,SOK,2	-10.54
22.56	SOK,SOK,4.	25.78	OK,OK,4.6=	-10.97
14.97	LOW,LOW,	15.17	OK,OK,0.9=	-12.05
77.91	SOK,SOK,2	75.76	OK,OK,10.	-10.61
44.5	SOK,SOK,6	49.11	SOK,SOK,3	-11.91
13.04	OK,OK,2.3=	10.87	OK,OK,3.5=	12.05
59.52	OK,OK,49.6	60.17	LOW,LOW,	-15.43
40.15	SOK,SOK,7	39.84	SOK,SOK,4	-14.33
56.82	SOK,SOK,1	55.14	SOK,SOK,6	-16.02
22.98	SOK,SOK,3	23.49	SOK,SOK,3	-10.03
25.35	OK,OK,7.0=	23.71	OK,OK,4.4=	19.09
71.96	SOK,SOK,3	68.35	SOK,SOK,2	-17.66
68.21	SOK,SOK,3	67.94	SOK,SOK,2	-10.65
77.49	SOK,SOK,4	72.94	SOK,SOK,3	-15.51
29.95	SOK,SOK,1	35.92	SOK,SOK,1	-11.2
10.37	OK,OK,1.2=	16.69	OK,OK,0.5=	-12.21
64.56	LOW,LOW,	80	OK,OK,9.7=	-24.98
67.95	SOK,SOK,1	66.52	SOK,SOK,1	-15.92
34.99	SOK,SOK,1	36.98	SOK,SOK,6	-11.95
23.89	OK,OK,5.0=	19.08	OK,OK,5.0=	-15.65
19.12	OK,OK,4.2=	23.23	OK,OK,3.0=	-12.3
53.33	OK,OK,14.	62.26	VLOW,VLO	20.52
26.14	SOK,SOK,5	22.53	SOK,SOK,4	-10.18
19.34	SOK,SOK,1	21.21	OK,OK,4.0=	-11.92
82.35	LOW,LOW,	83.67	VLOW,VLO	-11.3
44.68	SOK,SOK,1	45.01	SOK,SOK,8	-10.86
41.01	SOK,SOK,1	29.35	OK,OK,8.1=	-14.45
38.51	SOK,SOK,4	40.64	SOK,SOK,2	-13.31
49.68	SOK,SOK,1	53.85	OK,OK,8.6=	-10.84
33.79	SOK,SOK,1	34.74	OK,OK,10.	-10.17
78.46	SOK,SOK,5	87.1	OK,OK,48.	-19.9
11.65	OK,OK,1.4=	10.62	VLOW,VLO	-11.13
24.89	SOK,SOK,1	23.4	OK,OK,6.0=	-11.78
30.68	SOK,SOK,1	36.28	SOK,SOK,9.	-10.28
57.07	SOK,SOK,2	58.46	OK,OK,13.	-13.11
70.77	SOK,SOK,1	58.96	SOK,SOK,1	-13.02
61.98	SOK,SOK,1	61.14	SOK,SOK,1	-14.01

53.05	SOK,SOK,1	54.24	SOK,SOK,8	-11.77
42.58	SOK,SOK,2	46.45	OK,OK,18.8	-10.05
59.22	OK,OK,13.0	65.38	LOW,LOW,	-17.1
30.65	SOK,SOK,5	29.58	SOK,SOK,3	-14.24
10.94	OK,OK,2.8=	14.76	OK,OK,1.4=	-10.02
49.19	SOK,SOK,5	56.83	SOK,SOK,4	-16.49
60.49	LOW,LOW,	53.85	VLOW,VLO	-14.83
55.7	VLOW,VLO	65.35	VLOW,VLO	-14.72
28.79	SOK,SOK,2	23.93	SOK,SOK,1	-11.56
22.8	OK,OK,3.2=	33.58	VLOW,OK,3	-20.36
29.23	OK,OK,3.0=	25.25	OK,OK,0.7=	-12.31
24.64	SOK,SOK,2	32.88	OK,OK,17.8	-12.25
71.54	SOK,SOK,1	76.42	OK,OK,15.8	-15.19
12	OK,OK,0.2=	13.64	LOW,LOW,	-10.54
72.04	OK,OK,15.8	79.17	LOW,LOW,	-16.84
40.83	SOK,SOK,1	36.28	SOK,SOK,1	-12.81
41.12	SOK,SOK,9	48.45	SOK,SOK,7	-14.31
35	SOK,SOK,9.	46.79	OK,OK,7.0=	-13.19
28.87	LOW,LOW,	12.32	LOW,LOW,	-15.59
17.44	OK,OK,1.6=	22.9	OK,OK,1.6=	-11.93
27.27	SOK,SOK,1	29.6	OK,OK,6.5=	-10.81
38.8	SOK,SOK,3.	32.35	OK,OK,2.3=	-19.12
25.6	OK,OK,2.3=	28.21	VLOW,VLO	-10.47
35.67	OK,OK,1.6=	41.38	VLOW,VLO	-12.49
64.04	OK,OK,0.9=	79.31	VLOW,VLO	-18.67
80.08	SOK,SOK,1	75.66	SOK,SOK,7	-14.53
24.43	OK,OK,9.3=	21.26	OK,OK,9.0=	-13.26
100	VLOW,VLO	100	VLOW,VLO	-13.69
71.37	SOK,SOK,2	72.12	SOK,SOK,1	-11.98
30.77	SOK,SOK,1	29.59	SOK,SOK,1	-10.5
60.53	LOW,LOW,	58.44	LOW,LOW,	-17.06
47.27	SOK,SOK,1	51.58	SOK,SOK,7	-11.9
50.27	SOK,SOK,5	45.39	SOK,SOK,4	-10.42
51.73	SOK,SOK,2	43.92	SOK,SOK,1	-13.74
44.42	SOK,SOK,3	39.87	SOK,SOK,2	-10.05
40.66	SOK,SOK,6	37.61	SOK,SOK,4	-10.33
42.67	SOK,SOK,4	43.57	SOK,SOK,2	-12.74
55.53	SOK,SOK,2	56.4	SOK,SOK,1	-12.06
24.22	SOK,SOK,1	29.67	OK,OK,4.9=	-10.49
22.88	SOK,SOK,2	27.27	SOK,SOK,1	-11.11
50.14	SOK,SOK,2	39.22	SOK,SOK,2	-16.31
79.92	SOK,SOK,6	79.65	SOK,SOK,4	-14.75
27.27	OK,OK,3.9=	20.12	OK,OK,3.2=	-16.91
14.78	OK,OK,0.5=	22.57	VLOW,VLO	-13.97
68.09	SOK,SOK,3	67.16	OK,OK,12.3	-10.92

81.51	SOK,SOK,3	73.73	SOK,SOK,2	-18.24
22.94	OK,OK,3.0=	23.26	OK,OK,2.8=	-10.27
21.29	OK,OK,16.9	14.29	OK,OK,10.9	-11.03
29.41	OK,OK,11.6	33.33	VLOW,VLO	-16.01
39.3	SOK,SOK,3	44.36	SOK,SOK,2	-13.95
11.11	OK,OK,0.9=	17.24	VLOW,VLO	16.13
2.56	LOW,LOW,	3.7	VLOW,VLO	13.25