

Targeting RNA Strands	Sequence	Notes
Scrambled 200 bp	CAGGCAUUAAAGGGGAACGUAAGUUAAGCGCAAAAAACAGAGAAUAGGGCAAUUAUUUACUGUAUCGAAGAAUGGCCUGCGGAGGCAUGUGUCA UGCUAGCGUUGCGGGGUACUCUAGUUAUCCAUUAGUGGUCCACAGGACACUCGUUUGCUUUGCGAAUUGCCUUUAUUGCGCCGGUUUACGCCACGCUUA	
EWS/Fli1 10/10 bp	UAAGAAGGGUUCUGCUGCCC	
EWS/Fli1 20/20 bp	GACUGAGUCAUAAAGAGGGUUCUGCUGCCCUGAGCUGCUG	
EWS/Fli1 35/35 bp	CCAAGCUCUUCUGACUGAGUCAUAAAGAGGGUUCUGCUGCCCUGAGCUGCUGCUGUUGGCUUAUUA	
EWS/Fli1 60/60 bp	UGAGGCCAGAAUUAUGUUAUUGCCCCAAGCUCUUCUGACUGAGUCAUAAAGAGGGUUCUGCUGCCCUGAGCUGCUGCUCUGUUGGCCUAUUAUUGACUUGGA GCUUUGGCUUAGGGAUC	
EWS/Fli1 70/70 bp	CAGGCAAGGACUUAUUGUAGGCGCAGAAUUAUGUUAUUGCCCAAGCUCUUCUGACUGAGUCAUAAAGAGGGUUCUGCUGCCCUGAGCUGCUGCUGUUA GGCUUAUUAUUGAGCUUGGAGCUUUGGCUUAGGUAUCCAGUUAUGGGG	
EWS/Fli1 100/100 bp	UUACUGAUCGUUUGUGCCCCUCAAGGGGAGGACUUUUGUUGAGGCCAGAAUUAUGUUAUUGCCCAAGCUCUUCUGACUGAGUCAUAAAGAGGGUUCUG CUGCCCUGAGCUGCUGCUCUGUUGGCUUAUUAUUGAGCUGGAGCUUUGGCUUAGGUAUCCAGUUAUGGGGUGGGUAACUAGUUGGGAGGCGUCUGCCCAUA	
EWS/Fli1 200/190 bp	UUGCCACAGCUGGUAUCUGCCCCUUCAGGGUUGGCUAGGCGACUCUGGUCGGGCCAGGUAUCGUAACGGAUCUGGCUUGGGCCGUUGCUCUGUAUUUCUUAU UGAUCGUUUGUGCCCCUCAAGGGGAGGACUUUUGUUGAGGCCAGAAUUAUGUUAUUGCCCAAGCUCUUCUGACUGAGUCAUAAAGAGGGUUCUGCUGC CCGUAGCUGCUGCUCUGUUGGCCUAUUAUUGAGCUGGAGCUGGCUUAGGUAUCCAGUUAUGGGGUGGGUAACUAGUUGGGAGGCGUCUGCCCAUAGCUGCUUUGU GACCAUAGCUACUCUGCUUCCAUAGCUGCUGCGUUGCCAUAGGUUUCUGCUGAGAGUAACUGCUCUGAUAUAACU	
EWS/Fli1 180/20 bp Fusion-Shifted	GGCAACGCUUCCAGGGUUGGCUAGGCGACUCUGGUCGGGCCAGGUAUCGUAACGGAUCUGGCUUGGGCCGUUGCUCUGUAUUCUUAUCUGAUCGUUUUGGCC CUCCAAGGGGAGGACUUUUGUAGGCGCAAAUUAUGUUAUUGCCCAAGCUCUUCUGACUGAGUCAUAAAGAGGGUUCUGCUGCCCUGAGCUGCUG	
EWS/Fli1 2'-F 180/20 bp Fusion-Shifted	2FG2FGC2FA2FAC2FGCUUCC2FA2FG2FGU2FG2FGCU2FA2FG2FGC2FG2FACU2FGCU2FG2FGUC2FG2FG2FGCCC2FA2FG2FG2FAU2FG2FA2FAC2FG 2FG2FAUCU2FG2FGCU2FG2FG2FGCC2FGU2FGCU2FGU2FAUUCU2FACU2FG2FACU2FGUU2FGU2FGCCCUCC2FA2FA2FG2FG2FG2FA2FG2F G2FACUUU2FGU2FG2FA2FG2FGCC2FA2FG2FA2FAUUC2FAU2FGU2FAU2FGCC2FA2FA2FGCUUCUUCU2FG2FACU2FG2FA2FGUC2FAU2FA2FA2F G2FA2FA2FG2FG2FGUUCU2FGCU2FGCC2FGU2FGCU2FGCU2FGCU2FG	2F = 2'-F
EWS/Fli1 15/15 bp End-Blocked Pilot	dA*dG*dT*dCdAUAAAGAGGGUUCUGCUGCCCdGdTdA*dG*dC*	* = PS-bond, d = DNA base
EWS/Fli1 100/20 bp Fusion-Shifted End-Blocked	dA*dA*dT*dGdAGAUUCGUUUGGCCCUCCAAGGGGAGGACUUUUGUUGAGGCCAGAAUUAUGUUAUUGCCCAAGCUCUUCUGACUGAGUCAUAAAGAG GGUUCUGCUGCCCUGAGC*dT*dG*dC*dT*dG	
DNA Protector Strands		
Scrambled 200 bp	TGGCTGAAAACC GGCGCATAAAGGGCAAATCCGAAAGCAACGAGTGTCTGTGGACCATATGATAACTAGAGTACCCTGACGCTAGCATGACACATGCTCCCGAGG CCATTCTCGATACAGTAAGAATAGATTCAATTCGCTATTTCTGTGTTTTTGCGCTATACTACGTTCCCTTAATTGCCTG	
Scrambled 200 bp 2'-U	/IDEOXYU/GGC/IDEOXYU/GAAAACCGGCGCA/IDEOXYU/AAAGGGCAA/IDEOXYU/CCGAAGCAACGAG/IDEOXYU/G/IDEOXYU/CC/IDEOXYU/G/IDEOXYU/GG ACCA/IDEOXYU/A/IDEOXYU/GGA/IDEOXYU/AAC/IDEOXYU/AGAG/IDEOXYU/ACCCGCGACGC/IDEOXYU/AGCA/IDEOXYU/GACACA/IDEOXYU/GCC/IDEOXYU/ CCGCGAGGCA/IDEOXYU//IDEOXYU/C/IDEOXYU//IDEOXYU/CGA/IDEOXYU/ACAG/IDEOXYU/AAGAA/IDEOXYU/AGA/IDEOXYU//IDEOXYU/CA/IDEOXYU//ID EOXYU/CGCC/IDEOXYU/A/IDEOXYU//IDEOXYU//IDEOXYU/C/IDEOXYU/C/IDEOXYU/G/IDEOXYU//IDEOXYU//IDEOXYU//IDEOXYU//IDEOXYU//IDE OXYU/GCGC/IDEOXYU/A/IDEOXYU/AC/IDEOXYU//IDEOXYU/ACG/IDEOXYU//IDEOXYU/CCCC/IDEOXYU//IDEOXYU/AA/IDEOXYU//IDEOXYU/GCC/IDEOXYU/ G	/IDEOXYU/ = 2'-U
Scrambled 200 bp 2'-O Methyl	TGGCT2MGAAAACCGGCGCATAAAG2MGGCAAATCC2MGAAAGCAAC2MGAGTGTCT2MGTGGACCATATG2MGATAACTAGA2MGTACCCCGCAC2MGCTAGC ATGACACAT2MGCTCC2MGGCAGGACATTCT2MGATACA2MGTAAGAATA2MGATTCAATC2MGCTATTTCT2MGTTTTTG2MGCTATACTTAC2MGTTCC CTTAAT2MGCT2MG	2MG = 2'-O Methyl
EWS/Fli1 100/100 bp	AGCCTCCACTAGTTACCCACCCAACTGGATCCTACAGCCAAGCTCCAAGTCAATATAGCCAACAGCAGCAGCTACGGGAGCAGAACCTTCTTATGACTCAGTCAG AAGAGGAGCTTGGGGCAATAACATGAATTCTGGCCCTCAACAAAAGTCTCCCTTGGAGGGGCACAACGATCAGTAA	
EWS/Fli1 180/20 bp Fusion-Shifted	GGGAGCAGAACCTTCTTATGACTCAGTCAGAAAGAGGAGCTTGGGGCAATAACATGAATTCTGGCCCTCAACAAAAGTCTCCCTTGGAGGGGCACAACGATCAGTAA AATACAGAGCAACGGCCGACAGATCGATATCAGATCCTGGGCGGACAGCAGTCGCTAGCCCAACCTGGAAGCGCTGCTGCC	
EWS/Fli1 15/15 bp End-Blocked Pilot	G*G*G* C*AG CAG AAC CC/IDEOXYU// /IDEOXYU/C/IDEOXYU// /IDEOXYU/A/IDEOXYU/ GAC /IDEOXYU/A	/IDEOXYU/ = 2'-U
EWS/Fli1 100/20 bp Fusion-Shifted End-Blocked	ACG GGC AGC AGA ACC C/IDEOXYU// /IDEOXYU// /IDEOXYU// /IDEOXYU// /A/IDEOXYU// /A/IDEOXYU// /G AC/ /IDEOXYU// /CAG / /IDEOXYU// /CA GAA GAG GAG C/ /IDEOXYU// / /GGG GCA A/ /IDEOXYU// /A ACA / /IDEOXYU// /GA A/ /IDEOXYU// / /C/ /IDEOXYU// /G GCC / /IDEOXYU// /CA ACA AAA G/ /IDEOXYU// /C C/ /IDEOXYU// /C CCC / /IDEOXYU// / /G GAG GGG CAC AAA CGA / /IDEOXYU// /C/ /IDEOXYU// /CA/ /IDEOXYU// / / / /	/IDEOXYU/ = 2'-U
RNA Protector Strands		
Scrambled 200 bp s2U	S2UGGCS2UGAAAACCGGCGCAS2UAAAGGGCAAAS2UCCGAAAGCAACGAGS2UGS2UCCS2UGS2UGGACCAS2UAS2UGGAS2UAAACS2UAGAGS2UACCCCGCAGC CS2UAGCAS2UGACAS2UGCCS2UCCGCGAGGCCAS2US2UCS2US2UCGAS2UACAGS2UAAAGAS2UAGAS2US2UCAS2US2UCGCCS2UAS2US2US2UCS2US2 GS2US2US2US2US2US2UGGCS2UAS2UACS2US2UACGS2US2UCCCS2US2UAS2US2UGCS2UG	S2U = 2-Thiouridine
Scrambled 200 bp s4U GU Wobble	S4UGGCS4UGAGAACC GGCGS4UAAAGGGCAAAS4UCCGAGAGCAACGGG4UGS4UCS4UGS4UGGACGS4UAS4UGGAS4UAGCS4UAGAGS4UGCCCGCAGC CS4UGGAS4UAGCAS4UGCCS4UCCGCGGGGCGS4US4UCS4US4UCGAS4UACGAS4UAAAGAS4UAGAS4US4UCAS4US4UCGCCS4UGS4US4US4UCS4UCS4 UGS4US4US4US4US4US4UGGCS4UGS4UACS4US4UACGS4US4UCCCS4US4UGAS4US4UGCCS4UG	S4U = 4-Thiouridine

Scrambled 200 bp 5-mCTP	UGG5MCUGAAA5MC5MCGG5MCG5MCAUAAAGGG5MCAAU5MC5MCGAAAG5MCAA5MCGAGUGU5MC5MCUGUGGA5MC5MCAUUGGAUAA5MCUAG AGUA5MC5MC5MC5MCG5MCA5MCG5MCUAG5MCAUGA5MCA5MCAUG5MC5MCU5MC5MCG5MCGAGG5MC5MCAU5MCU5MCGAU5MCAUGAAGA AUAGAU5MCAU5MCG5MC5MCUAAU5MCU5MCUGUUUUUU5MCG5MCAU5MCUUA5MCGU5MC5MC5MCUAAUUG5MC5MCUG	5MC = 5-methylcytidine
Truncated mRNA Sense Strands		
EWS/Fli1 400 bp	AGTTATGAT CAGAGCAGTT ACTCTCAGCAGAACCTAT GGGCAACCGA GCAGCTATGG ACAGCAGAGT AGCTATGGTC AACAAAGCAGCTATGGGCAG CAGCCTCCCA CTAGTTACCC ACCCCAAACT GGATCCTACA GCCAAGCTCCAAGTCAATAT AGCCAACAGA GCAGCAGCTA CGGGCAGCAG AACCTTCT TATGACTCAG TCAGAAGAGGAGCTTGGGGC AATAACATGA ATTCTGGCCT CAACAAAAGT CCTCCCCTTG GAGGGGCACA AACGATCAGT AAGAATACAG AGCAACGGCC CCAGCCAGAT CCGTATCAGA TCCTGGGCC GACCAGCAGT CGCCTAGCCA ACCCTGGAAG CGGGCAGATC CAGCTGTGGC AA	
EWS 400 bp	AGTTATGAT CAGAGCAGTT ACTCTCAGCA GAACACCTAT GGGCAACCGA GCAGCTATGG ACAGCAGAGT AGCTATGGTC AACAAAGCAG CTATGGGCAG CAGCCTCCCA CTAGTTACCC ACCCCAAACT GGATCCTACA GCCAAGCTCC AAGTCAATAT AGCCAACAGA GCAGCAGCTA CGGGCAGCAG AGTTCATTCC GACAGGACCA CCCAGTAGC ATGGGTGTTT ATGGGCAGGA GTCTGGAGGA TTTTCCGGAC CAGGAGAGAA CCGGAGCATG AGTGGCCCTG ATAACCGGGG CAGGGGAAGA GGGGGATTG ATCGTGGAGG CATGAGCAGA GGTGGGCGGG GAGGAGGACG CGGTGGAATG GGCCTGGAG AGCGAGGTGG TTCAATAA GGAGATCG ACACATCCTT TTTCCAGAAC ATGGATGGCA AGGAACTGTG TAAAATGAAC AAGGAGGACT TCCTCCGCGC CACCACCTC TACAACACGG AAGTGCTGTG GTCACACCTC AGTTACTCA GGGAAAGTTC ACTGCTGGCC TATAATACAA CCTCCACAC CGACCAATCC TCACGATTGA GTGTCAAAGA AGACCTTCT TATGACTCAG TCAGAAGAGG AGCTTGGGC AATAACATGA ATTCTGGCCT CAACAAAAGT CCTCCCCTTG GAGGGGCACA AACGATCAGT AAGAATACAG AGCAACGGCC CCAGCCAGAT CCGTATCAGA TCCTGGGCC GACCAGCAGT CGCCTAGCCA ACCCTGGAAG CGGGCAGATC CAGCTGTGGC AA	
Fli1 400 bp		
Primers		
EWS/Fli1 mRNA	F primer: CAGCAGAGTAGCTATGGTCAAC; R primer: GGCCGTTGCTCTGTATTCTTA	
EWS mRNA	F primer: CAGCAGAGTAGCTATGGTCAAC; R primer: TCCGGAAAATCCTCCAGAC	
Fli1 mRNA	F primer: GGATGGCAAGGAACTGTGTA; R primer: GGCCGTTGCTCTGTATTCTTA	
GAPDH mRNA	F primer: GGGTGTGAACCATGAGAAGTAT; R primer: AGTAGAGGCAGGGATGATGT	
2'-U Transcribed DNA RT-qPCR	F primer: GAGGACTTTTGTGAGGCCAG; R primer = CAGTCAGAAGAGGAGCTTGGG	
PKR mRNA	F primer: GGTACAGTTTCTACTAACAGG; R primer: GAAAAGTGGCCAAATCCACC	
RIG-I mRNA	F primer: TGTTCTCAGATCCCTTGGATG; R primer: CACTGCTCACCAGATTGCAT	
OAS3 mRNA	F primer: CCGAACTGTCTGGCCTGATCC; R primer: CCCATTCCCAGTCCCATGTGG	