

Table V
PentaNucleotides

GGGAT	4-phos N1627GGGAT4p	methyl C1641GGGAT4pMet
GGATT	Missing	C1613GGATT4pMet
TTGGG	C1613TTGGG4p	N1627TTGGG4pMet
CCCTA	N1487CCCTA4p	N1505cccta4pMet
CCTAC	C1513CCTAC4pH*	N1527CCTAC4pMet
AACCC	C1500AACCC4pL*	C1513AACCC5pMetH*
GGGAT	6-phos C1782GGGAT6p	methyl N1798GGGAT6pMet
GGATT	C1754GGATT6pH*	C1772GGATT6pMet
TTGGG	C1772TTGGG6pH*	C1791TTGGG6pMet
CCCTA	C1643CCCTA6pH*	C1658CCCTA6pMetH*
CCTAC	C1672CCTAC6pH*	C1682CCTAC6pMetH*
AACCC	C1656AACCC6pH*	C1672AACCC6pMetH*
GGGAT	8-phos N1941GGGAT8p	methyl N1957GGGAT8pMet
GGATT	N1914GGATT8P	NC1933GGATT8pMet
TTGGG	NC1929TTGGG8p	N1945TTGGG8pMet
CCCTA	CN1800CCCTA8p	CN1815CCCTA8pMet
CCTAC	CN1827CCTAC8p	CN1843CCTAC8pMet
AACCC	N1807AACCC8p	CN1827AACCC8pMet
GGGAT	10-phos C2095GGGAT10P	methyl Missing

GGATT TTGGG	Missing C2084TTGGG10P	C2084GGATT10pMet Missing
CCCTA CCTAC AACCC	N1957CCCTA10P N1975CCTAC10P N1964AACCC10P	N1975CCCTA 10pMet C1994CCTAC10pMet N1979AACCC10pMet
GGGAT GGATT TTGGG	12phos C2253gggat12P C2228GGATT12P L c2240ttggg12P	methyl c2266gggat12PMet c2240ggatt12P C2254TTGGG12PMet
CCCTA CCTAC AACCC	C2115CCCTA12P Missing C2120AACCC12P	Missing c2150cctac12pMet Missing
GGGAT GGATT TTGGG	14-phos c2407gggat14P H C2383GGATT14p C2395ttggg14p H	methyl CN2419GGGAT14PH C2395GGATT14pMetH C2413ttggg14pMet
CCCTA CCTAC AACCC	C2267CCCTA14P c2292aatac14P Missing	C2282cccta14pMet Missing c2291aacc14pMet

Table IV
TetraNucleotides

GGGA GGGT	3-Phos C1289GGGA3P C1279GGGT3P	Methyl C1296gggt3pmet
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GGAT	N1262GGAT3P	c1279ggat3pmet
GGTT	C1255GGTT3P	N1270GGTT3pmet
GATT	C1233GATT3P	C1255gatt3pmet
TCCC	1155TCCC3P	
ATCC	1181ATCC3P	
ACCC		
AACC	C1189aacc3p	N1203AACC3pMet
AATC	N1203AATC3P	C1222aatc3pmet
	5=Phos	Methyl
GGGA	N1443ggga5p H	c!1456ggga5pmet H
GGGT	C!1434gggt5p	c1447gggt5pmet H
GGAT	C!1418ggat5p*	c!1433ggat5pmet H
GGTT	N1408ggtt5p*	c!1424ggtt5pmet H
GATT	N1395gatt5p	C1408gatt5pmet H *
TCCC	c1316tccc5p	c1328tccc5pmet*
ATCC	c1338atcc5p	n1352atcc5pmet*
ACCC	c1323acc5p	C1334acc5pmet
AACC	n1346aacc5p*	c1361aacc5pmet*
AATC	c1361aatc5p	c1377aatc5pmet*
	7-Phos	Methyl
GGGA	N1596ggga7p	c!1613ggga7pmet
GGGT	n1586gggt7p	n1608gggt7pmet
GGAT	c1577ggat7p	n\$1586ggat7pmet
GGTT	n\$1566ggtt7p	n\$1583ggtt7pmet
GATT	n1551gatt7p	n\$1564gatt7pmet
TCCC	c1469tccc7p	n!1484tccc7pmet
ATCC	c!1491atcc7p	n!1506atcc7pmet
ACCC	c!1477acc7p	C!1491acc7pmet
AACC	n!1506aacc7p	n!1521aacg7pmet
AATC	n!1521aatc7p	n\$1529aatc7pmet
	9-Phos	Methyl
GGGA	c!1757ggga9p H	c!1770ggga9pmet H
GGGT	c!1747gggt9p H	n1761gggt9pmet*
GGAT	c1732ggat9p H	c!1747ggat9pmet H

GGTT	n1721ggtt9p*	c!1735ggtt9pmet H	
GATT	c!1704gatt9p H	n1722gatt9pmet*	
TCCC	n1624tccc9p*	c1640tccc9pmet	
ATCC	n1649atcc9p	c1662atcc9pmet	
ACCC	C!1637acc9p	n1649acc9pmet	
AACC	C!1659aacc9p*	c!1673aacc9pmet	
AATC	c!1673aatc9p	c1685aatc9pmet	
	11-Phos	Methyl	
GGGA	n1914ggga11p	c1927ggga11pmet	
GGGT	c1901gggt11p	c1917gggt11pmet	
GGAT	n1888ggat11p*	c1901ggat11pmet	
GGTT	c!1879ggtt11p	c1894ggtt11pmet	
GATT	n1864gatt11p*	c!1879gatt11pmet	
		3	0
TCCC	n1782tccc11p	n1797tccc11pmet	
ATCC	c1805atcc11p	c1821atcc11pmet	
ACCC	c!1791acc11p H	c1805acc11pmet	
AACC	c!1814aacc11p	n1831aacc11pmet	
AATC	n1831aatc11p*	n1842aatc11pmet*	

Table III
TriNucleotides

		2 Methyl	
GGG	C!957ggg2p	N\$967ggg2pmet HN	
TGG	C!928tgg2p H	N\$946tgg2pmet N	
TGT	N\$907tgt2p H	N\$924tgt2pmet H	
TAG	C916tag2p	C!928tag2pmet H	
TAT	N\$885tat2p N	N\$907tat2pmet H	
AGG	C!940agg2p HN	C!954agg2pmet	
TAA	C!897taa2p	C!911taa2pmet	
TCC	C!852tcc2p HN	C864tcc2pmet HN	
TCA	C!875tca2p H	C893tca2pmet	

CAA	N\$8852pN	C!897caa2pmet
CCC	C!840ccc2p	C!852ccc2pmetHN
CCA	~~~C877	C!875cca2pmetH

4 Methyl

GGG	n1112ggg4pL	N1127ggg4pmet
TGG	n1089tgg4pH	C1100tgg4pmet
TGT	~~~~~	C!1075tgt4pmetL
TAG	c1075tag4pL	N1089tag4pmetH
TAT	n1046tat4p	~~~~~
AGG	C!1098agg4p	N\$1112agg4pmetL
	Below 4 then dinucleotides contribute pieces	
TAA	C!1054taa (CAA) 4pL	~~~~~
TCC	C!1009tcc4pL	n1023tcc4pmetH
TCA	L	n1047tca4pmet
CAA	~~~~~ 1057	C!1054caa4pmetL
CCC		993 C!1009ccc4pmetL
CCA	C!1017cca4pH	C!1032cca4pmetL

6 Methyl

GGG	N\$1269ggg6pN	n1285ggg6pmet
TGG	C1244tgg6p*	n1259tgg6pmetL
TGT	N!1222tgt6pN	c!1234tgt6pmetL
TAG	C1229tag6p*N	N\$1246tag6pmetN
TAT	N\$1204tat6pN	N!1222tat6pmetN
AGG	C!1254agg6pL	N\$1269agg6pmetN
TAA	C!1212taa6p	n1229taa6pmetN
TCC	c1164tcc6p*	c1179tcc6pmet*
TCA	c1189tca6p*	N\$1204tca6pmetN
CAA	n1195caa6p*	C!1212caa6pmet
CCC	N1149ccc6p*H	C1164ccc6pmet*
CCA	N1173cca6p*	C1189cca6pmet

		8 Methyl
GGG	C!1425ggg8p H	N\$1440ggg8pmet
TGG	N\$1400TGG8p N	C1415tgg8pmet H
TGT	C!1377TGT8p* N	C!1389tgt8pmet* L
TAG	C!1389TAG8p* L	C1399tag8pmet
TAT	C!1360TAT8p* H	c!1377tat8pmet*
AGG	C!1409agg8p H	C!1424agg8pmet H
TAA	C!1371TAA8p* N	C!1382taa8pmet* H
TCC	C!1324TCC8p* H	C!1333tcc8pmet
TCA	C!1345tca8p* H	C!1360tca8pmet H
CAA	c!1356caa8p*	C!1371caa8pmet* N
CCC	C!1311ccc8p* H	C!1324ccc8pmet* H
CCA	C!1333cca8p*	C!1345cca8pmet* H

Table II
Di Nucleotides

	1-Phos	Methyl
TT	c559tt1p	C!573tt1pmet H
AG	C!595ag1p L	C610ag1pmet H
GG	C!617gg1p H	N\$629gg1pmet
TA	C!573ta1p H	c586ta1pmet H
TG	c587tg1p	C603tg1pmet H
CC	C532cc1p	C!551cc1pmet H
CA	C!559ca1p H	C!573ca1pmet H
AA	C580aa1p	C!595aa1pmet L

TC	C!551tc1pH	C559tc1pmet
TA	C!573ta1pH	c586ta1pmetH
	3-Phos	Methyl
TT	C720tt3pL!!!	C!739tt3pmet
AG	C!757ag3pH	C!771ag3pmetH
GG	C!771gg3pH	C!784gg3pmetH
TA	C!726ta3pH	C742ta3pmet
TG	C743tg3pH	C753TG3pmetH
	Cancerous	
CC	C!688cc3pH	C705cc3pmetL
CA	C!715ca3pLH!!!	C!726ca3pmetH
AA	C!739aa3pH	N753aa3pmetH
TC	C705tc3pL	C!718tc3pmetHL!!!
TA	C!726ta3pH	C742ta3pmet
	5-Phos	Methyl
TT	C!875tt5pH	N\$885tt5pmetN
AG	N\$907ag5pH	N\$924ag5pmetH
GG	N\$924gg5pH	c940gg5pmetH
TA	n\$885ta5pN	C!897ta5pmet
TG	C!897tg5p	N\$907gt5pmetH
	Cancerous	
CC	C844cc5pH	c860cc5pmetH
CA	c868ca5p	N\$885ca5pmetN
AA	C!897aa5p	N\$907aa5pmetH
TC	c859tc5p	c!875tc5pmetH
TA	n\$885ta5pN	C!897ta5pmet

Table I

Nucleotides

Monophos

		met
G	C270G	C349g1PH
A	N253A	C326a1pH
T	C243T	C!315t1p
C	C227C	C304c1pL

Triphos

		met
G	C500g3pL	c517g3pmetL
A	N\$489a3pNL _{T3pmet}	c500a3pmet
T	N\$473t3pN	N\$494t3pmetN
C	C459c3pN	n\$474c3pmetN

acetyl C1688GGGAT4pAcetH* C1658GGATT4pAcetH* C1679TTGGG4pAcetH*	5-phos C1704GGGAT5PH* C1679GGATT5pH* C1695TTGGG5pH*	methyl C1723GGGAT5pMetH* C1695GGATT5pMet C1709TTGGG5pMetH*
N1549CCCTA4pAcet C1569CCTAC4pAcet Missing	C1569CCCTA5p C1592CCTAC5p Missing	<u>Missing</u> Missing C1591AACCC5pMet
acetyl C1841GGGAT6pAcet C1820GGATT6pAcet C1835TTGGG6pAcet H	7-phos C1857GGGAT7P H C1835GGATT7p H C1850TTGGG7p	methyl C1879GGGAT7pMet C1850GGATT7pMet Missing
C1705CCCTA6pAcetH* C1726CCTAC6pAcetH* C1711AACCC6pAcetH*	C1723CCCTA7pH* C1747CCTAC7pH* C1735AACCC7pH*	C1735CCCTA7pMetH* C1757CCTAC7pMetH* C1747AACCC7pMetH*
acetyl C!2002GGGAT8pacetL N1975GGATT8pAcet C1986TTGGG8pAcet	9-phos C!2018GGGAT9PL C1993GGATT9p C2008TTGGG9p H	methyl C2030GGGAT9pMet H C2008ggatt9pmet H C2024TTGGG9pMetL
CN1857CCCTA8pAcet CN1882CCTAC8pAcet Missing	N1880CCCTA9p N1901CCTAC9p Missing	CN1895CCTA9pMet N1915CCTAC9pMet N1901AACCC9pMet
acetyl C2152gggat10pAcet	11phos c2172gggat11P	methyl c2190GGGAT11PMet

Missing	c2152ggatt11P	C2160ggatt11pMet
Missing	C2160ttggg11p	C2180ttggg11pMet
C2018CCCTA10pAcetL	C2030CCCTA11PH	C2045CCCTA11PmetL
C2040CCTAC10pAcet	C2055CCTAC11P	Missing
C2024AACCC10pAcetL	C2045AACCC11PL	Missing
acetyl	13-phos	methyl
Missing	C2331GGGT13PH*	C2345GGGAT13pMetH*
c2282ggatt12pAect	Missing	N2322GGATT13PmethH
cN2300ttggg12pacet	N2322ttggg13P	C2331ttggg13pMetH*
C2172cccta12pAcetL	C2190cccta13PL	C2204CCCTA13PMet
C2194cctac12pAcetL	C2214aaTAC13PL	C2228aatac13PMetL
C2183aaccc1pAcetL	C2200aaccc13p	C2216aaccc13pMet
acetyl	15-phos	methyl
N2468GGGAT14pAcetL	N2488GGGAT15p	C2495GGGAT15pmetL*
C2438GGATT14pAcet	N2454GGATT15pHL*	CN2472GGATT15pMetH*
N2453ttggg14pAcetHL*	CN2472ttggg15pL*	N2488ttggg15pmet
CN2330CCCTA14pAcetL*	C2346CCCTA15pL	C2363cccta15pMet
C2352aatac14pAcetH	C2373aatac15pH	C2380AATAC15pMet
C2335AACCC14pAcetL	C2356aaccc15PH	C2373aaccc15PMetH
Acetyl	4-Phos	Methyl
	c1368ggga4p*	C1377ggga4pmet
	c1354gggt4p*	N1369GGGT4pmet

c1296ggtt3pacet c1279gatt3pacet	c1341ggat4p C1335ggtt4p* c1316gatt4p	C1354ggat4pmet C1346ggtt4pmet* N1330GATT4pmet*
N1203tccc3pacet n1225atcc3pacet c1211acc3pacet c1234aacc3pacet N1248aatc3pacet*	c1234tccc4p* n1263atcc4p* C1243acc4p* n1269aacc4p* C1289aatc4p	N1248TCCC4pmet C1277atcc4pmet C1255acc4pmet C1289aacc4pmet C1299aatc4pmet*
Acetyl n\$1483ggga5pacet c!1477gggt5pacet N!1461ggat5pacet c!1457ggtt5pacet c!1436gatt5pacet*	6-Phos n\$1521ggga6p n\$1506gggt6p c!1499ggat6p n\$1483ggtt6p c1469gatt6p	Methyl n1537ggga6pmet n\$1527gggt6pmet n\$1506ggat6pmet n\$1504ggtt6pmet n\$1483gatt6pmet
c!1355tccc5pacet* c1381atcc5pacet* c1368acc5pacet* n1390aacc5pacet* c!1405aatc5pacet*	n1395tccc6p* c!1419atcc6p n\$1401acc6p c1424aacc6p n\$1439aatc6p	n1408tccc6pmet n1429atcc6pmet C!1418acc6pmet* n1442aacc6pmet c!1456aatc6pmet
Acetyl c1640ggga7pacet C!1637gggt7pacet c!1613ggat7pacet n1608ggtt7pacet n1596gatt7pacet Normal c1513tccc7pacet n1538atcc7pacet n\$1524acc7pacet n1542aacc7pacet n\$1564aatc7pacet	8-Phos c!1678ggga8p c!1671gggt8p c!1656ggat8p c1640gaac8p n1627gatt8p* n1551tccc8p c1569atcc8p n1551acc8p c1580aacc8p n1596aatc8p	Methyl c!1696ggga8pmet C!1681gggt8pmet* c!1671ggat8pmet C!1659ggtt8pmet* c1642gatt8pmet 0/5 n\$1564tccc8pmet n\$1586atcc8pmet c1569acc8pmet n1596aacc8pmet C!1613aatc8pmet*
Acetyl n1799ggga9pacet* n1785gggt9pacet* c!1772ggat9pacet H	10-Phos C1833ggga10p H n1824gggt10p c1808ggat10p H	Methyl c1849ggga10pmet* C!1839gggt10pmet c1821ggat10pmet

n1765ggtt9pacet*
c!1747gatt9pacet**H**

c!1673tccc9pacet
c!1694atcc9pacet
c!1677acc9pacet
c!1701aacc9pacet**H**
c!1717aatc9pacet**H**

3

n1796ggtt10p*
n1783gatt10p*

c!1704tccc10p**H**
c1726atcc10p**H**
c!1711acc10p**H**
c!1735aacc10p**H**
n1752aatc10p*

4

c!1814ggtt10pmet**H**
n1799gatt10p*met

n1722tccc10p*met
n1743atcc10p*met
n1725acc10p*met
n1752aacc10p*met
c1766aatc10p*met

2

Acetyl
n1954ggga11pacet*
n1945gggt11pacet*
c1931ggat11pacet
c1921ggtt11pacet
c1904gatt11pacet

c1821tccc11pacet
c1849atcc11pacet
n1833acc11pacet*
c!1857aacc11pacet
c1873aatc11pacet

2

12-Phos
c!1993ggga12P
c!1985gggt12p
c1865ggat12p
c1959ggtt12p**H**
c1938gatt12p

n1862tccc12p*
n1885atcc12p*
n1868acc12p*
c1894aacc12p
n1908aatc12p*

0

Methyl
????
c1999gggt12pmet
c1982ggat12pmet
c1970ggtt12pmet
c1959gatt12pmet

c!1879tccc12pmet
c1898atcc12pmet
n1885acc12pmet*
n1908aacc12pmet*
c1927aatc12pmet

0

Acetyl
C!1004ggg2pacet**H**
c!978tgg2pacet
C!954tgt2pacet
C!954tag2pacet
C935tat2pacet
C!982agg2pacet**H**

N\$946taa2pacet**N**
C!897tcc2ptcc
couple to C935

C!1031GGG3pL
N\$1010tgg3pL
C!982tgt3pH
C!997tag3pLH
N\$967tat3pHN
C!1021agg3pH

C!978taa3p
C!928tcc3pH
C!954tca3p

3 Methyl

C!1050ggg3pmetL
N\$1023tgg3pmet**H**
C!999tgt3pmetLH
C!1009tag3pmetL
c!984tat3pmetHN
C!1031agg3pmetL

C!993taa3pmet
N\$946tcc3pmet**N**
N\$967tca3pmetHN

C!928caa2pacetH
N\$885ccc2pacetN
N\$907cca2pacetH

n\$967caa3pHN
C!911ccc3pH
C!940cca3pH

C!978caa3pmet
C!928ccc3pmetH
C!954cca3pmet

Acetyl

n1155ggg4pacetH
N\$1133tgg4pacetL
n1105tgt4pacet
C!1119tag4pacetLH
n\$1089tat4pacetH
N\$1143agg4pacetL

c1191ggg5p
n1166tgg5p
n1143tgt5pL
n1161tag5p
n1127tat5p
n1176agg5p

5 Methyl

n1204ggg5pmetN
c1181tgg5pmet
n1155tgt5pmetH
n1169tag5pmet
n1143tat5pmetL
C1190agg5pmet

C!1098taa4pacetL
C!1054tcc4pacetL
c!1075tca4pacetL
N\$1089caa4pacetH
c1036ccc4pacet*
n1061cca4pacet*

n1133taa5pL
n1089tcc5p
n1112tca5pL
c1119caa5pLH
c1069ccc5pH
c1097cca5pL

n1149taa5pmetH
n1103tcc5pmet
n1127tca5pmet
n1134caa5pmetL
c1086ccc5pmetH
n1110cca5pmetL

Acetyl

c!1312ggg6pacetH
c!1290tgg6pAcetL
c1261tgt6pacet
n1271tag6pscetN
n1246tat6pacetN
c1294agg6pacet*

C1350GGG7pH
C!1324TGG7pH
c1299tgt7p
N\$1303TAG7p
n1280tat7p
C!1333agg7p

7 Methyl

C1365GGG7pmet*N
C1343TGG7pmet*H
C!1312TGT7pmet*
C!1324TAG7pmet*H
c1296tat7pmet
C!1350agg7pmet*H

c!1254taa6pacetL
N\$1204tcc6pacetN
c1234tca6pacetL
c1241caa6pacet
c1191ccc6pacet*
C!1212acc6pacet

c1290taa7pL
n\$1246tcc7pN
n\$1269tca7pN
C!1276caa7p
C!1324CCC7p
C!1254cca7pL

C1311TAA7pmet*H
C!1257tcc7pmetL
C1281tca7pmet
C!1290caa7pmet
C1242CCC7pmet
C!1266acc7pmet

Acetyl

C!1468ggg8pacetH
 C!1447tgg8pacet
 C1418tgt8pacetH
 C!1427tag8pacet
 C!1404tat8pacet
 C!1456agg8pacetL

C!1411taa8pacetL
 C!1365TCC8pacet
 C!1389tca8pacetL
 N\$1392caa8pacetL
 c1350ccc8pacet*H
 C!1371cca8pacetN

N\$1505ggg9pN
 C!1477tgg9pL
 C!1456tgt9pL
 N\$1461tag9pN
 N\$1439tat9p
 N\$1486agg9pN

C!1447taa9p
 N\$1401tcc9p
 C!1426tca9p
 C!1434caa9pL
 C!1389CCC9pL
 C!1411cca9p

9 Methyl

c!1521ggg9pmetH
 c1496tgg9pmetL
 c!1468tgt9pmet
 C!1477tag9pmetL
 c1456tat9pmetL
 N\$1502agg9pmetN

N\$1461TAA9pmetN
 C1413tcc9pmetLH
 n\$1439tcg9pmet
 c!1447caa9pmet
 N\$1401ccc9pmetN
 C!1426cca9pmet

Acetyl

c603tt1pacetH
 C!639ag1pacetH
 C!654gg1pacetH
 C617ta1pacetH
 C630tg1pacetH

C573cc1pacetH
 C!595ca1pacetL
 C624aa1pacetH

2-Phos

C!640tt2pH
C!673 ag2p H
 N\$689gg2pN
 N!649ta2pN
 N!665tg2pNL

C610cc2pH
 C!636ca2pH
 C!658aa2pH

Methyl

C!654tt2pmetH
 N\$688ag2pmetN
 N\$710gg2pmetN
 n669ta2pmetN
 C!682tg2pmetH

N\$625cc2pmetN
 N\$649ca2pmetN
C!673 aa2pmet H

C!590tc1pacetL	N\$629tc2pN	C!640tc2pmetH
C617ta1pacetH	N!649ta2pN	n669ta2pmetN
Acetyl	4-Phos	Methyl
C\$761tt3pAcetH	C!796tt4pH	C814tt4pmet
C794AG3pACETH	C!830ag4pLN	N\$849ag4pmetN
C809gg3pacetHN	c846gg4pH	c861gg4pmetH
C771ta3pACETH	C!807ta4pH	C!822ta4pmetH
C785tg3pACETH	C!821tg4pH	C!835tg4pmetHL
	Cancerous	
C!739cc3pAcetH	C!770cc4pH	C!784cc4pmetH
C!757ca3pacetH	C!794ca4pH	C!807ca4pmetHN
C!777aa3pacetH	c814aa4pHN	C!830aa4pmetL
C749tc3pacet	C!784tc4pH	c!796tc4pmetH
C771ta3pACETH	C!807ta4pH	C!822ta4pmetH
Acetyl	6-Phos	Methyl
c917tt5pacetH	C!954tt6pH	N\$967tt6pmetHN
c!954ag5pacetH	N\$990ag6pHN	C!1004ag6pmetH
N\$967gg5pacetH	C!999gg6pL	C!1021gg6pmetH
N\$924ta5pacetH	c960ta6pH	C!978ta6pmetH
N\$946tg5pacetHN	c977tg6p	N\$992tg6pmet
	(Mixed	
N\$885cc5pacetN	N\$924cc6pH	C!940cc6pmetHN
N\$907ca5pacet	N\$946ca6pHN	c960ca6pmetH
C!940aa5pacetH	n970aa6p	C982aa6pmetH
N\$907tc5pacetH	C!940tc6pH	C!954tc6pmetH
N\$924ta5pacetH	c960ta6pH	C!978ta6pmetH

acetyl
C!360g1pmetH
~~~~~  
C!335t1metH  
~~~~~

DiPhos
C!391G1pacetH
C372a1pacetH
359t1pacetH
C349c1pacetH

met
c428g2pL
c409a2pH
C398t2p
C383c2pH

Acetyl
C544g3pacetH
n528a3pacetH
n517t3pacetH
C!508c3pacetH

Legend:
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Red = Only in Cancer DNA
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acetyl
 Missing
 C1738GGATT5pAcetH*
C1757TTGGG5pAcetH*
 Telomeres

N1624CCCTA5pAcet
N1649CCTAC5pAcet
C1635AACCC5pAcet
 Mating Telomeres

acetyl
 N1923GGGAT7pAcet
 C1893GGATT7pAcet
 N1914TTGGG7pAcet
 Telomeres

N1778CCCTA7pAcet
 CN1807CCTAC7pAcet
 C1791AACCC7pAcet
 Mating Telomeres

acetyl
 Missing
 C2052GGATT9pAcetL
 C2062TTGGG9pAcetL
 Telomeres

N1941CCCTA9pAcet
 N1964CCTAC9pAcet
 N1945AACCC9pAcet
 Mating Telomeres

acetyl
 C2232gggat11pAcet

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C2204GGATT11pAcet
Missing Telomeres Gold = Only in Normal DNA

C2094CCCTA11pAcet
C2016CCTAC11pAcet Mating Telomeres
C2095AACCC11pAcet

acetyl
C2384gggat13pAcet
C2363GGATT13PAcet Telomeres
C2373ttggg13pAcet**H**

C2248cccta13pAcet
c2273aatac13pAcet Mating Telomeres
C2254aaccc13PAcet

acetyl
C2445GGGAT15pAcet**H***
C2519GGATT15pACET**L*** Telomeres
C2535TTGGG15pAcet**L**

C2407CCCTA15pAcet**H**
CN2429aatac15pAcet**L*** Mating Telomeres
C2417aaccc15pAcet**H**

Acetyl
N1428ggga4pacet*
N1399gggt4pact*

c1381ggat4pacet*
C1377ggtt4pacet*
C1354gatt4pacet

Telomeres

C1277TCCC4pacet
n1203atcc4pacet
C1287ACCC4pacet
C1316aacc4pacet
N1331aaTC4pacet*

Mating Telomeres

Acetyl
c1566ggga6pacet
n1551gggt6pacet
n1538ggat6pacet
n1530ggtt6pacet
C!1515gatt6pacet

Telomeres

c!1435tccc6pacet*
c!1457atcc6pacet*
N1443acc6pacet*
c1469aacc6pacet
n\$1484aatc6pacet

Mating Telomeres

Acetyl
n1722ggga8pacet**H**
c!1711gggt8pacet**H**
c!1696ggat8pacet
c!1687ggtt8pacet
c!1671gatt8pacet*

Telomeres

n\$1586tccc8pacet
c!1613atcc8pacet
n1596acc8pacet
n1623aacc8pacet*
C!1637aatc8pacet*

Mating Telomeres

Acetyl
c!1879ggga10pacet
n1869gggt10p*acet
n1851ggat10p*acet

Telomeres

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n1842ggtt10p*acet
n1827gatt10p*acet

4

c!1747tccc10p*acet
c!1770atcc10p*acet
n1752accc10p*acet
n1779aacc10p*acet
n1796aatc10pacet

Mating Telomeres

Acetyl
????
????
????

Telomeres

c1999ggtt12pacet
c!1985gatt12pacet

0

c1901tccc12pacet
c1927atcc12pacet
n1911accc12pacet*
c1938aacc12pacet
c1950aatc12pacet

Mating Telomeres

Acetyl
~~~~~ C1096

c!1054tgg3pacetL  
C!1031tgt3pacetL

~~~~~

Telomeres

N1012tat3pacetL
~~~~~

c!1021taa3pacetH  
C978tcc3pacet  
C!997tca3pacetLH

c!1009caa3pacetL      Mating Telomeres  
C!958ccc3pacet  
C!982cca3pacetH

Acetyl

C!1234ggg5pacetL

C!1212tgg5paet

c1184tgt5pacet

c1193tag5pacet\*      Telomeres

n1169tat5pacet\*

N!1222agg5pacetN

C1177taa5pacet

n1129tcc5pacet

n1155tca5pacetH

c1162caa5pacet      Mating Telomeres

c!1119ccc5pacetH

C!1138cca5pacet

Acetyl

C!1389GGG7pacet\*N

C!1367TGG7pacet\*N

C!1343TGT7pAcet\*H

C!1350TAG7pAcet\*H      Telomeres

C!1328TAT7pAcet\*H

C!1377agg7pacetN

C!1333TAA7pacet

N1285tcc7pacetL

C!1311tca7pacet\*H

N\$1318CAA7pACET      Mating Telomeres

N1270ccc7pacetN

c1294aac7pacet

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Acetyl

N1543ggg9pacet

C!1521tgg9pacetH

C!1499tgt9pacetL

N\$1505tag9pacetN

N\$1483tat9pacetN

C1530agg9pacet

n1480taa9pacet

N\$1439TCC9pacetL

C!1469TCA9pacet

C!1477caa9pacetL

C!1426ccc9pacet

C1451cca9pacetL

Telomeres

Mating Telomeres

Black = in Cancer and Normal DNA

! = Most Intense Peaks

Red = Only in Cancer DNA

Gold = Only in Normal DNA

Acetyl

C!686tt2pacetH

c720ag2pacetL!!!

N\$732gg2pacetN

**C!695 ta2pacet L**

N\$710tg2pacetN

Telomeres

Mating Telomeres

C!654cc2pacetH

C!680ca2pacetH

**C!695 aa2pacet L**

N!669tc2pacetNL

**C695ta2pacetL**

Acetyl

C!840tt4pacetH

C!875ag4pacetH

N\$885gg4pacetN

C!853ta4pacetHN

c864tg4pacetH

Telomeres

C!807cc4pacetGN

C!835ca4pacetHN

N!853aa4pacetH

C!822tc4pacetH

C!853ta4pacetHN

Mating Telomeres

**Acetyl**

C!995tt6pacetL

C!1031ag6pacetL

n1046gg6pacet

C!1004ta6pacetH

C!1021tg6pacetH

Telomeres

N\$967cc6pacetH

N\$990ca6pacetN

c1013aa6pacetL

C!982tc6pacetH

C!1004ta6pacetH

Mating Telomeres

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Acetyl

C441g2pmet

C422a2pmet

N\$413t2pmetLN

C404c2pmetNH

C469g2pacetN

N\$449a2pacetNH

C441t2pacet

N\$429c2pacetN

\

A

es (13C, 17O)

and Normal DNA