

Table S1. DMS mutagenesis primers.

Primer name	Sequence (5'-3')
NatalEDIII-for-mut1	cttagattgNNNggCGTgtca
NatalEDIII-for-mut2	agattgaagNNNgTgtcatac
NatalEDIII-for-mut3	ttgaaggGcNNNtcatactcc
NatalEDIII-for-mut4	aaggGcgtgNNNtactccttg
NatalEDIII-for-mut5	ggCGTgtcaNNNtccttGtgt
NatalEDIII-for-mut6	gtgtcatacNNNttgtgtacc
NatalEDIII-for-mut7	tcatactccNNNtgtaccGca
NatalEDIII-for-mut8	tactccttgNNNaccGcagcg
NatalEDIII-for-mut9	tccttGtgtNNNgcagcgttc
NatalEDIII-for-mut10	ttgtgtaccNNNgcgttcaca
NatalEDIII-for-mut11	tgtaccGcaNNNttcacattc
NatalEDIII-for-mut12	accGcagcgNNNacattcacc
NatalEDIII-for-mut13	gcagcgttcNNNttaccaag
NatalEDIII-for-mut14	gcgttcacaNNNaccaagatc
NatalEDIII-for-mut15	ttcacattcNNNaagatcccG
NatalEDIII-for-mut16	acattcaccNNNatcccggct
NatalEDIII-for-mut17	ttaccaagNNNccggctgaa
NatalEDIII-for-mut18	accaagatcNNNgctgaaaca
NatalEDIII-for-mut19	aagatcccGNNNgaaacactg
NatalEDIII-for-mut20	atcccggctNNNacactgcac
NatalEDIII-for-mut21	ccggctgaaNNNctgcacggg
NatalEDIII-for-mut22	gctgaaacaNNNcacgggaca
NatalEDIII-for-mut23	gaaacactgNNNgggacagtc
NatalEDIII-for-mut24	acactgcacNNNacagtcaca
NatalEDIII-for-mut25	ctgcacgggNNNgTcacagtg
NatalEDIII-for-mut26	cacgggacaNNNacagtggag
NatalEDIII-for-mut27	gggacagtcNNNgtggaggta
NatalEDIII-for-mut28	acagtcacaNNNgaggtagag
NatalEDIII-for-mut29	gtcacagtgNNNgtacagtac
NatalEDIII-for-mut30	acagtggagNNNcagtagca
NatalEDIII-for-mut31	gtggaggtaNNNtagcaggg
NatalEDIII-for-mut32	gaggtagagNNNgcagggaca
NatalEDIII-for-mut33	gtacagtacNNNgggacagat
NatalEDIII-for-mut34	cagtagcaNNNacagatgga
NatalEDIII-for-mut35	tacgcagggNNNgatggacct
NatalEDIII-for-mut36	gcagggacaNNNggacctgac
NatalEDIII-for-mut37	gggacagatNNNccttgcaag
NatalEDIII-for-mut38	acagatggaNNNtgcaaggtt
NatalEDIII-for-mut39	gatggacctNNNaaggttcca
NatalEDIII-for-mut40	ggacctgacNNNgttccagct
NatalEDIII-for-mut41	ccttgcaagNNNccagctcag
NatalEDIII-for-mut42	tgcaaggttNNNgctcagatg
NatalEDIII-for-mut43	aaggttccaNNNcagatggcg
NatalEDIII-for-mut44	gttccagctNNNatggcggtg
NatalEDIII-for-mut45	ccagctcagNNNgcgggtggac

NatalEDIII-for-mut46	gctcagatgNNNgtggacatg
NatalEDIII-for-mut47	cagatggcgNNNgacatgcaa
NatalEDIII-for-mut48	atggcggtgNNNatgcaaact
NatalEDIII-for-mut49	gcggtggacNNNcaaactctg
NatalEDIII-for-mut50	gtggacatgNNNactctgacc
NatalEDIII-for-mut51	gacatgcaaNNNctgaccca
NatalEDIII-for-mut52	atgcaaactNNNaccccagtt
NatalEDIII-for-mut53	caaactctgNNNccagttggg
NatalEDIII-for-mut54	actctgaccNNNgttgggagg
NatalEDIII-for-mut55	ctgacccaNNNgggaggttg
NatalEDIII-for-mut56	accccagttNNNaggttgata
NatalEDIII-for-mut57	ccagttgggNNNttgataacc
NatalEDIII-for-mut58	gttgggaggNNNataaccgct
NatalEDIII-for-mut59	gggaggttgNNNaccgctaac
NatalEDIII-for-mut60	aggttgataNNNgctaacccc
NatalEDIII-for-mut61	ttgataaccNNNaaccccgta
NatalEDIII-for-mut62	ataaccgctNNNcccgtaatc
NatalEDIII-for-mut63	accgctaacNNNgtaatcact
NatalEDIII-for-mut64	gctaaccccNNNatcactgaa
NatalEDIII-for-mut65	aaccccgtaNNNactgaaagc
NatalEDIII-for-mut66	cccgtaatcNNNgaaagcact
NatalEDIII-for-mut67	gtaatcactNNNagcactgag
NatalEDIII-for-mut68	atcactgaaNNNactgagaac
NatalEDIII-for-mut69	actgaaagcNNNgagaactct
NatalEDIII-for-mut70	gaaagcactNNNaactctaag
NatalEDIII-for-mut71	agcactgagNNNtctaagatg
NatalEDIII-for-mut72	actgagaacNNNaagatgatg
NatalEDIII-for-mut73	gagaactctNNNatgatgctg
NatalEDIII-for-mut74	aactctaagNNNatgctggaa
NatalEDIII-for-mut75	tctaagatgNNNctggaactt
NatalEDIII-for-mut76	aagatgatgNNNgaacttgat
NatalEDIII-for-mut77	atgatgctgNNNcttgatcca
NatalEDIII-for-mut78	atgctggaaNNNgatccacca
NatalEDIII-for-mut79	ctggaacttNNNccaccattt
NatalEDIII-for-mut80	gaacttgatNNNccatttggg
NatalEDIII-for-mut81	cttgatccaNNNtttggggac
NatalEDIII-for-mut82	gatccaccaNNNggggactct
NatalEDIII-for-mut83	ccaccatttNNNgactcttac
NatalEDIII-for-mut84	ccatttgggNNNtcttacatt
NatalEDIII-for-mut85	tttggggacNNNtacattgtc
NatalEDIII-for-mut86	ggggactctNNNattgtcata
NatalEDIII-for-mut87	gactcttacNNNgtcatagga
NatalEDIII-for-mut88	tcttacattNNNataggagtc
NatalEDIII-for-mut89	tacattgtcNNNggagtcggg
NatalEDIII-for-mut90	attgtcataNNNgtcggggag
NatalEDIII-for-mut91	gtcataggaNNNggggagaag
NatalEDIII-for-mut92	ataggagtcNNNgagaagaag
NatalEDIII-for-mut93	ggagtcgggNNNaagaagatc

NatalEDIII-for-mut94	gtcggggagNNNaagatcacc
NatalEDIII-for-mut95	ggggagaagNNNatcaccac
NatalEDIII-for-mut96	gagaagaagNNNaccaccac
NatalEDIII-for-mut97	aagaagatcNNNcaccactgg
NatalEDIII-for-mut98	aagatcaccNNNcactggcac
NatalEDIII-for-mut99	atcaccacNNNtggcacagg
NatalEDIII-for-mut100	accaccacNNNcacaggagt
NatalEDIII-for-mut101	caccactggNNNaggagtggc
NatalEDIII-for-mut102	cactggcacNNNagtggcagc
NatalEDIII-for-mut103	tggcacaggNNNggcagcacc
NatalEDIII-for-mut104	cacaggagtNNNagcaccatt
NatalEDIII-for-mut105	aggagtggcNNNaccattgga
NatalEDIII-for-mut106	agtggcagcNNNatggaaa
NatalEDIII-for-mut107	ggcagcaccNNNggaaaagca
NatalEDIII-for-mut108	agcaccattNNNaagcattt
NatalEDIII-for-mut109	accattggaNNNgcatttgaa
NatalEDIII-for-mut110	attggaaaNNNtttgaagcc
NatalEDIII-for-mut111	ggaaaagcaNNNgaagccact
NatalEDIII-for-mut112	aaagcatttNNNgccactgtg
NatalEDIII-for-mut113	gcatttgaaNNNactgtgaga
NatalEDIII-for-mut114	tttgaagccNNNgtgagaggt
NatalEDIII-for-mut115	gaagccactNNNagaggtgcc
NatalEDIII-for-mut116	gccactgtgNNNggtgccaag
NatalEDIII-for-mut117	actgtgagaNNNgccaagaga
NatalEDIII-for-mut118	gtgagaggtNNNaagagaatg
NatalEDIII-for-mut119	agaggtgccNNNagaatggca
NatalEDIII-for-mut120	ggtgccaagNNNatggcagtc
NatalEDIII-for-mut121	gccaagagaNNNgcagtcttg
NatalEDIII-for-mut122	aagagaatgNNNgtccttggga
NatalEDIII-for-mut123	agaatggcaNNNttgggagac
NatalEDIII-for-mut124	atggcagtcNNNggagacaca
NatalEDIII-for-mut125	gcagtcttgNNNgacacagcc
NatalEDIII-for-mut126	gtccttgggaNNNacagcctgg
NatalEDIII-for-mut127	ttgggagacNNNgcctgggac
NatalEDIII-for-mut128	ggagacacaNNNtgggacttt
NatalEDIII-for-mut129	gacacagccNNNgactttgga
NatalEDIII-for-mut130	acagcctggNNNtttggatca
NatalEDIII-for-mut131	gcctgggacNNNggatcagtt
NatalEDIII-for-mut132	tgggactttNNNtcagttgga
NatalEDIII-for-mut133	gactttggaNNNgttggaggc
NatalEDIII-for-mut134	tttggatcaNNNggagggcgt
NatalEDIII-for-mut135	ggatcagttNNNggcgctctc
NatalEDIII-for-mut136	tcagttggaNNNgctctcaac
NatalEDIII-for-mut137	gttggaggcNNNctcaactca
NatalEDIII-for-mut138	ggagggcgtNNNaactcattg
NatalEDIII-for-mut139	ggcgctctcNNNtcattgggc
NatalEDIII-for-mut140	gctctcaacNNNttgggcaag
NatalEDIII-for-mut141	ctcaactcaNNNggcaagggc

NatalEDIII-for-mut142	aactcattgNNNaagggcatc
NatalEDIII-for-mut143	tcattggggcNNNggcatccat
NatalEDIII-for-mut144	ttgggcaagNNNatccatcaa
NatalEDIII-for-mut145	ggcaagggcNNNcatcaaatt
NatalEDIII-for-mut146	aagggcatcNNNcaaattttt
NatalEDIII-for-mut147	ggcatccatNNNatttttggga
NatalEDIII-for-mut148	atccatcaaNNNtttggagca
NatalEDIII-for-mut149	catcaaattNNNggagcagct
NatalEDIII-for-mut150	caaatttttNNNgcagctttc
NatalEDIII-for-mut151	atttttggaNNNgctttcaaa
NatalEDIII-for-mut152	tttggagcaNNNttcaaatca
NatalEDIII-for-mut153	ggagcagctNNNaatcattg
NatalEDIII-for-mut154	gcagctttcNNNtcattgttt
NatalEDIII-for-mut155	gctttcaaaNNNttgtttggga
NatalEDIII-for-mut156	ttcaaatcaNNNtttggagga
NatalEDIII-for-mut157	aatcattgNNNggaggaatg
NatalEDIII-for-mut158	tcattgtttNNNggaaatgtcc
NatalEDIII-for-mut159	ttgtttgggaNNNatgtcctgg
NatalEDIII-for-mut160	tttggaggaNNNtcctggttc
NatalEDIII-for-mut161	ggaggaatgNNNtggttctca
NatalEDIII-for-mut162	ggaatgtccNNNttctcacia
NatalEDIII-for-mut163	atgtcctggNNNtcacaaatc
NatalEDIII-for-mut164	tcctgggttcNNNcaaatcctc
NatalEDIII-for-mut165	tggttctcaNNNtccctcatt
NatalEDIII-for-mut166	ttctcaciaNNNctcattgga
NatalEDIII-for-mut167	tcacaaatcNNNattggaacg
NatalEDIII-for-mut168	caaatcctcNNNggaaacgttg
NatalEDIII-for-mut169	atcctcattNNNacggttgctg
NatalEDIII-for-mut170	ctcattggaNNNttgctgatg
NatalEDIII-for-mut171	attggaacgNNNctgatgtgg
NatalEDIII-for-mut172	ggaacgttgNNNatgtggttg
NatalEDIII-for-mut173	acgttgctgNNNtggttgggt
NatalEDIII-for-mut174	ttgctgatgNNNttgggtctg
NatalEDIII-for-mut175	ctgatgtggNNNgggtctgaac
NatalEDIII-for-mut176	atgtggttgNNNctgaacaca
NatalEDIII-for-mut177	tggttgggtNNNaacacaaag
NatalEDIII-for-mut178	ttgggtctgNNNacaaagaat
NatalEDIII-for-mut179	ggtctgaacNNNaagaatgga
NatalEDIII-for-mut180	ctgaacacaNNNaatggatct
NatalEDIII-for-mut181	aacacaaagNNNggatctatt
NatalEDIII-for-mut182	acaaagaatNNNtctatttcc
NatalEDIII-for-mut183	aagaatggaNNNatttccctt
NatalEDIII-for-mut184	aatggatctNNNtcccttatg
NatalEDIII-for-mut185	ggatctattNNNcttatgtgc
NatalEDIII-for-mut186	tctatttccNNNatgtgcttg
NatalEDIII-for-mut187	atttcccttNNNtgcttggcc
NatalEDIII-for-mut188	tcccttatgNNNttggcctta
NatalEDIII-for-mut189	cttatgtgcNNNgccttaggg

NatalEDIII-for-mut190	atgtgcttgNNNttaggggga
NatalEDIII-for-mut191	tgcttggccNNNgggggagtg
NatalEDIII-for-mut192	ttggccttaNNNggagtggtg
NatalEDIII-for-mut193	gccttagggNNNgtggtgatc
NatalEDIII-for-mut194	ttagggggaNNNttgatcctc
NatalEDIII-for-mut195	gggggagtgNNNtcttctta
NatalEDIII-for-mut196	ggagtggtgNNNttcttatcc
NatalEDIII-for-mut197	gtggtgatcNNNttatccaca
NatalEDIII-for-mut198	ttgatcctcNNNtccacagcc
NatalEDIII-for-mut199	atcttcttaNNNacagccgtc
NatalEDIII-for-mut200	ttcttatccNNNgccgtctct
NatalEDIII-for-mut201	ttatccacaNNNgtctctgct
NatalEDIII-for-mut202	tccacagccNNNtctgctgat
NatalEDIII-for-mut203	acagccgtcNNNgtgatgtg
NatalEDIII-for-mut204	gccgtctctNNNgatgtgggg
NatalEDIII-rev-mut1	tgacacgccNNNcaatctaag
NatalEDIII-rev-mut2	gtatgacacNNNcttcaatct
NatalEDIII-rev-mut3	ggagtatgaNNNgcccttcaa
NatalEDIII-rev-mut4	caaggagtaNNNcacgccctt
NatalEDIII-rev-mut5	acacaaggaNNNtgacacgcc
NatalEDIII-rev-mut6	ggtacacaaNNNgtatgacac
NatalEDIII-rev-mut7	tgcggtacaNNNggagtatga
NatalEDIII-rev-mut8	cgctgcggtNNNcaaggagta
NatalEDIII-rev-mut9	gaacgctgcNNNacacaagga
NatalEDIII-rev-mut10	tgtgaacgcNNNgggtacacaa
NatalEDIII-rev-mut11	gaatgtgaaNNNtgcggtaca
NatalEDIII-rev-mut12	ggtgaatgtNNNcgctgcggt
NatalEDIII-rev-mut13	cttgggtgaaNNNgaacgctgc
NatalEDIII-rev-mut14	gatcttgggtNNNtgtgaacgc
NatalEDIII-rev-mut15	cgggatcttNNNgaatgtgaa
NatalEDIII-rev-mut16	agccgggatNNNgggtgaatgt
NatalEDIII-rev-mut17	ttcagccggNNNcttgggtgaa
NatalEDIII-rev-mut18	tgtttcagcNNNgatcttgggt
NatalEDIII-rev-mut19	cagtgtttcNNNcgggatctt
NatalEDIII-rev-mut20	gtgcagtgtNNNagccgggat
NatalEDIII-rev-mut21	cccgtgcagNNNttcagccgg
NatalEDIII-rev-mut22	tgtcccgtgNNNtgtttcagc
NatalEDIII-rev-mut23	gactgtcccNNNcagtgtttc
NatalEDIII-rev-mut24	tgtgactgtNNNgtgcagtgt
NatalEDIII-rev-mut25	cactgtgacNNNcccgtgcag
NatalEDIII-rev-mut26	ctccactgtNNNtgtcccgtg
NatalEDIII-rev-mut27	tacctccacNNNgactgtccc
NatalEDIII-rev-mut28	ctgtacctcNNNtgtgactgt
NatalEDIII-rev-mut29	gtactgtacNNNcactgtgac
NatalEDIII-rev-mut30	tgcgtagctgNNNctccactgt
NatalEDIII-rev-mut31	ccctgcgtaNNNtacctccac
NatalEDIII-rev-mut32	tgtccctgcNNNctgtacctc
NatalEDIII-rev-mut33	atctgtcccNNNgtactgtac

NatalEDIII-rev-mut34	tccatctgtNNNtgcgtactg
NatalEDIII-rev-mut35	aggtccatcNNNccctgcgta
NatalEDIII-rev-mut36	gcaaggtccNNNtgtccctgc
NatalEDIII-rev-mut37	cttgcaaggNNNtctgtccc
NatalEDIII-rev-mut38	aaccttgcaNNNtccatctgt
NatalEDIII-rev-mut39	tggaaccttNNNaggtccatc
NatalEDIII-rev-mut40	agctggaacNNNgcaaggtec
NatalEDIII-rev-mut41	ctgagctggNNNcttgcaagg
NatalEDIII-rev-mut42	catctgagcNNNaaccttgca
NatalEDIII-rev-mut43	cgccatctgNNNtggaaacctt
NatalEDIII-rev-mut44	caccgccatNNNagctggaac
NatalEDIII-rev-mut45	gtccaccgcNNNctgagctgg
NatalEDIII-rev-mut46	catgtccacNNNcatctgagc
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NatalEDIII-rev-mut49	cagagtttgNNNgtccaccgc
NatalEDIII-rev-mut50	ggtcagagtNNNcatgtccac
NatalEDIII-rev-mut51	tggggtcagNNNttgcatgtc
NatalEDIII-rev-mut52	aactgggggtNNNagtttgcat
NatalEDIII-rev-mut53	cccaactggNNNcagagtttg
NatalEDIII-rev-mut54	cctcccaacNNNggtcagagt
NatalEDIII-rev-mut55	caacctcccNNNtggggtcag
NatalEDIII-rev-mut56	tatcaacctNNNaactgggggt
NatalEDIII-rev-mut57	ggttatcaaNNNcccaactgg
NatalEDIII-rev-mut58	agcggttatNNNcctcccaac
NatalEDIII-rev-mut59	gtagcgggtNNNcaacctccc
NatalEDIII-rev-mut60	ggggttagcNNNtatcaacct
NatalEDIII-rev-mut61	tacgggggtNNNggttatcaa
NatalEDIII-rev-mut62	gattacgggNNNagcggttat
NatalEDIII-rev-mut63	agtgattacNNNgttagcgggt
NatalEDIII-rev-mut64	ttcagtgatNNNgggggttagc
NatalEDIII-rev-mut65	gctttcagtNNNtacgggggtt
NatalEDIII-rev-mut66	agtgctttcNNNgattacggg
NatalEDIII-rev-mut67	ctcagtgctNNNagtgattac
NatalEDIII-rev-mut68	gttctcagtNNNttcagtgat
NatalEDIII-rev-mut69	agagttctcNNNgctttcagt
NatalEDIII-rev-mut70	cttagagttNNNagtgctttc
NatalEDIII-rev-mut71	catcttagaNNNctcagtgct
NatalEDIII-rev-mut72	catcatcttNNNgttctcagt
NatalEDIII-rev-mut73	cagcatcatNNNagagttctc
NatalEDIII-rev-mut74	ttccagcatNNNcttagagtt
NatalEDIII-rev-mut75	aagttccagNNNcatcttaga
NatalEDIII-rev-mut76	atcaagttcNNNcatcatctt
NatalEDIII-rev-mut77	tggatcaagNNNcagcatcat
NatalEDIII-rev-mut78	tggatcaagNNNtccagcat
NatalEDIII-rev-mut79	aatgggtggNNNaagttccag
NatalEDIII-rev-mut80	cccaaatggNNNatcaagttc
NatalEDIII-rev-mut81	gtccccaaaNNNtggatcaag

NatalEDIII-rev-mut82	agagtccccNNNtgggtggatc
NatalEDIII-rev-mut83	gtaagagtcNNNaaatgggtgg
NatalEDIII-rev-mut84	aatgtaagaNNNcccaaatgg
NatalEDIII-rev-mut85	gacaatgtaNNNgtcccaaaa
NatalEDIII-rev-mut86	tatgacaatNNNagagtcccc
NatalEDIII-rev-mut87	tcctatgacNNNgtagagtc
NatalEDIII-rev-mut88	gactcctatNNNaatgtaaga
NatalEDIII-rev-mut89	cccgactccNNNgacaatgta
NatalEDIII-rev-mut90	ctccccgacNNNtatgacaat
NatalEDIII-rev-mut91	cttctccccNNNtcctatgac
NatalEDIII-rev-mut92	cttcttctcNNNgactcctat
NatalEDIII-rev-mut93	gatcttcttNNNcccgactcc
NatalEDIII-rev-mut94	ggtgatcttNNNctccccgac
NatalEDIII-rev-mut95	gtgggtgatNNNcttctcccc
NatalEDIII-rev-mut96	gtgggtgggtNNNcttcttctc
NatalEDIII-rev-mut97	ccagtgggtgNNNgatcttctt
NatalEDIII-rev-mut98	gtgccagtgNNNggtgatctt
NatalEDIII-rev-mut99	cctgtgccaNNNgtgggtgat
NatalEDIII-rev-mut100	actcctgtgNNNgtgggtgggt
NatalEDIII-rev-mut101	gccactcctNNNccagtgggtg
NatalEDIII-rev-mut102	gctgccactNNNgtgccagtg
NatalEDIII-rev-mut103	ggtgctgccNNNcctgtgcc
NatalEDIII-rev-mut104	aatggtgctNNNactcctgtg
NatalEDIII-rev-mut105	tccaatggtNNNgccactcct
NatalEDIII-rev-mut106	ttttccaatNNNgctgccact
NatalEDIII-rev-mut107	tgcttttccNNNgggtgctgcc
NatalEDIII-rev-mut108	aatgctttNNNaatggtgct
NatalEDIII-rev-mut109	ttcaaatgcNNNtccaatggt
NatalEDIII-rev-mut110	ggcttcaaaNNNttttccaat
NatalEDIII-rev-mut111	agtggcttcNNNtgcttttcc
NatalEDIII-rev-mut112	cacagtggcNNNaaatgcttt
NatalEDIII-rev-mut113	tctcacagtNNNttcaaatgc
NatalEDIII-rev-mut114	acctctcacNNNggcttcaaa
NatalEDIII-rev-mut115	ggcacctctNNNagtggcttc
NatalEDIII-rev-mut116	cttggcaccNNNcacagtggc
NatalEDIII-rev-mut117	tctcttggcNNNtctcacagt
NatalEDIII-rev-mut118	cattctcttNNNacctctcac
NatalEDIII-rev-mut119	tgccattctNNNggcacctct
NatalEDIII-rev-mut120	gactgccatNNNcttggcacc
NatalEDIII-rev-mut121	caagactgcNNNtctcttggc
NatalEDIII-rev-mut122	tccaagacNNNcattctctt
NatalEDIII-rev-mut123	gtctcccaaNNNtgccattct
NatalEDIII-rev-mut124	tgtgtctccNNNgactgccat
NatalEDIII-rev-mut125	ggctgtgtcNNNcaagactgc
NatalEDIII-rev-mut126	ccaggctgtNNNtccaagac
NatalEDIII-rev-mut127	gtcccaggcNNNgtctcccaa
NatalEDIII-rev-mut128	aaagtcccaNNNtgtgtctcc
NatalEDIII-rev-mut129	tccaaagtcNNNggctgtgtc

NatalEDIII-rev-mut130	tgatccaaaNNNccaggctgt
NatalEDIII-rev-mut131	aactgatccNNNgtcccaggc
NatalEDIII-rev-mut132	tccaactgaNNNaaagtcca
NatalEDIII-rev-mut133	gcctccaacNNNtccaaagtc
NatalEDIII-rev-mut134	agcgcctccNNNtgatccaaa
NatalEDIII-rev-mut135	gagagcgccNNNaactgatcc
NatalEDIII-rev-mut136	gttgagagcNNNtccaactga
NatalEDIII-rev-mut137	tgagttgagNNNgcctccaac
NatalEDIII-rev-mut138	caatgagttNNNagcgcctcc
NatalEDIII-rev-mut139	gccaatgaNNNgagagcgcc
NatalEDIII-rev-mut140	cttgcccaaNNNgttgagagc
NatalEDIII-rev-mut141	gcccttgccNNNtgagttgag
NatalEDIII-rev-mut142	gatgcccttNNNcaatgagtt
NatalEDIII-rev-mut143	atggatgccNNNgcccaatga
NatalEDIII-rev-mut144	ttgatggatNNNcttgcccaa
NatalEDIII-rev-mut145	aatttgatgNNNgccttgcc
NatalEDIII-rev-mut146	aaaaatttgNNNgatgccctt
NatalEDIII-rev-mut147	tccaaaaatNNNatggatgcc
NatalEDIII-rev-mut148	tgctccaaaNNNttgatggat
NatalEDIII-rev-mut149	agctgctccNNNaatttgatg
NatalEDIII-rev-mut150	gaaagctgcNNNaaaaatttg
NatalEDIII-rev-mut151	ttgaaagcNNNtccaaaaat
NatalEDIII-rev-mut152	tgatttgaaNNNtgctccaaa
NatalEDIII-rev-mut153	caatgatttNNNagctgctcc
NatalEDIII-rev-mut154	aaacaatgaNNNgaaagctgc
NatalEDIII-rev-mut155	tccaaacaaNNNtttgaaagc
NatalEDIII-rev-mut156	tcctccaaaNNNtgatttgaa
NatalEDIII-rev-mut157	cattcctccNNNcaatgattt
NatalEDIII-rev-mut158	ggacattccNNNaacaatga
NatalEDIII-rev-mut159	ccaggacatNNNtccaaacaa
NatalEDIII-rev-mut160	gaaccaggaNNNtcctccaaa
NatalEDIII-rev-mut161	tgagaaccaNNNcattcctcc
NatalEDIII-rev-mut162	ttgtgagaaNNNggacattcc
NatalEDIII-rev-mut163	gatttgtgaNNNccaggacat
NatalEDIII-rev-mut164	gaggatttgNNNgaaccagga
NatalEDIII-rev-mut165	aatgaggatNNNtgagaacca
NatalEDIII-rev-mut166	tccaatgagNNNttgtgagaa
NatalEDIII-rev-mut167	cgttccaatNNNgatttgtga
NatalEDIII-rev-mut168	caacgttccNNNgaggatttg
NatalEDIII-rev-mut169	cagcaacgtNNNaatgaggat
NatalEDIII-rev-mut170	catcagcaaNNNtccaatgag
NatalEDIII-rev-mut171	ccacatcagNNNcgttccaat
NatalEDIII-rev-mut172	caaccacatNNNcaacgttcc
NatalEDIII-rev-mut173	acccaaccaNNNcagcaacgt
NatalEDIII-rev-mut174	cagacccaaNNNcatcagcaa
NatalEDIII-rev-mut175	gttcagaccNNNccacatcag
NatalEDIII-rev-mut176	tgtgttcagNNNcaaccacat
NatalEDIII-rev-mut177	ctttgtgttNNNacccaacca

NatalEDIII-rev-mut178	attccttgtNNNcagacccaa
NatalEDIII-rev-mut179	tccattcttNNNgttcagacc
NatalEDIII-rev-mut180	agatccattNNNtgtgttcag
NatalEDIII-rev-mut181	aatagatccNNNctttgtgtt
NatalEDIII-rev-mut182	ggaaatagaNNNattccttgt
NatalEDIII-rev-mut183	aagggaaatNNNtccattctt
NatalEDIII-rev-mut184	cataagggaNNNagatccatt
NatalEDIII-rev-mut185	gcacataagNNNaatagatcc
NatalEDIII-rev-mut186	caagcacatNNNggaaataga
NatalEDIII-rev-mut187	ggccaagcaNNNaagggaaat
NatalEDIII-rev-mut188	taaggccaaNNNcataaggga
NatalEDIII-rev-mut189	ccctaaggcNNNgcacataag
NatalEDIII-rev-mut190	tccccctaaNNNcaagcacat
NatalEDIII-rev-mut191	cactccccNNNggccaagca
NatalEDIII-rev-mut192	caacactccNNNtaaggccaa
NatalEDIII-rev-mut193	gatcaacacNNNccctaaggc
NatalEDIII-rev-mut194	gaagatcaaNNNtccccctaa
NatalEDIII-rev-mut195	taagaagatNNNcactcccc
NatalEDIII-rev-mut196	ggataagaaNNNcaacactcc
NatalEDIII-rev-mut197	tgtggataaNNNgatcaacac
NatalEDIII-rev-mut198	ggctgtggaNNNgaagatcaa
NatalEDIII-rev-mut199	gacggctgtNNNtaagaagat
NatalEDIII-rev-mut200	agagacggcNNNggataagaa
NatalEDIII-rev-mut201	agcagagacNNNtgtggataa
NatalEDIII-rev-mut202	atcagcagaNNNggctgtgga
NatalEDIII-rev-mut203	cacatcagcNNNgacggctgt
NatalEDIII-rev-mut204	ccccacatcNNNagagacggc