

Supplementary Tables 1 – 10. The major gRNA classes involved in editing of the *T. brucei* mRNAs. The gRNA is identified by its complementarity to the 5' (column 1) and 3' (column 2) number of the fully edited mRNA (+1 = 0). The populations were sorted based on both mRNA regions covered and on guiding sequence class. Variations in both 5' and 3' nts outside of the guiding regions were ignored. Transcript copy numbers were determined by adding all gRNAs of the same guiding region sequence. Major sequence classes were defined as containing greater than 100 transcript copies. The specific sequence shown is of the most abundant transcript in the sequence class. In the case of rare gRNA transcripts, the identified gRNAs are shown regardless of copy number. Red nucleotides indicate a mismatch in the aligned sequence (including C:A base pairs). Starred (☆) gRNAs indicate novel gRNAs not found in the KISS database (<http://splicer.unibe.ch/kiss>). The square indicates novel gRNAs with a closely related gRNA (1-5 nt differences) found in the KISS database.

Supplementary Table 1: COIII: Major gRNA classes

mRNA 5'	mRNA 3'	copy #	COIII major gRNA classes
☆24	70	2	ATATAC AATATACAACGGAATGAGAATATAAGAAAGTGATGATTATT T ₁₀
☆29	70	112	ATATAC AATATACAACGGAATGAGAATATAAGAAAGTGATGATA TTAT ₁₁
☆35	70	1179	ATAATT AATATACAACGAGATAGAGACGTAAGAAGAT TGATGTAT ₁₁ G
☆36	73	826	AT ATAATATACAACGAGATGAAGGCATAGAGAAA AGATGGTATATAAT ₁₄
51	99	721	ATATAT AACAAAAACTACTAGCGTTGACAGATATATGATGAAAAT T ₁₁ G
☆54	101	1386	ATAT AAAACAAAAACATCACTGATATTGACGGATATATGATGA TAAAT ₁₁ G
☆81	112	834	GTA GAGTGAAGATAGAGAAATAAAGATATCGTT T ₁₃
☆81	116	550	ATATATAATAACAATAGCAGGTAAAGGTGAGAAAAGTGAAGATATCATT T ₁₀
☆81	131	1	TACATAATAACAGTGGCGGGTAGAGATAGAAGAATAAAGATACTATT T ₈
117	156	104	ATATATA TCCAACAACAGAGTAACCGATACATAGTGATAGTG ATAT ₁₃
☆131	188	109	ATAT AAAACTACCAAACAGTAAATAGATAAAGTTCTAATAAGTGAGATAATTAAT TGTTAT ₁₃ ATC
☆134	188	542	ATAT AAAACTACCAAACAGTAAATAGATAAAGTTCTAATAAGTGAGATAAAT T ₈ GTT
141	185	126513	ATAT ATTACCAAACAATAGACGAGTAGATTCTAATAGATGA TTTAAT ₁₂ G
□141	185	99	ATAT ATTACCAAACAATAGACGAGTAGATTCTAATAAATGA TTTAATTAAT ₈
□141	185	183	ATAT ATTACCAAACAATAGACAAGTAGATTCTAATAGATGA TTTAAT ₈ AT ₄
□141	185	761	ATAT ATTACCAAACAATAGATGAGTAGATTCTAATAGATGA TTTAATTAAGT ₄
□142	185	199	ATAT ATTACCAAACAATAGACGAGTAGATTCTAATAGATA TTTAATTAT ₅
□143	185	116	ATAT ATTACCAAACAATAGACGAGTAGATTCTAATAGAT CATTTAATTAT ₅
□145	185	172	ATAT ATTACCAAACAATAGACGAGTAGATTCTAATAG CTGATTTAATTTTGT ₈
□146	185	350	ATAT ATTACCAAACAATAGACGAGTAGATTCTAATA TATGATTTAAT ₅ CT ₄
□147	185	106	ATAT ATTACCAAACAATAGACGAGTAGATTCTAAT CGATGATTTAATTAAT ₁₇
☆163	203	2487	AAA ATAATCAACAATAAGAGAACTGCTAGATGATAGGTGA TATAGAT ₁₀ GTT
163	211	861	ATATT AACCAACAATCAATAAGTAAGAGACTACTAGATGATAGATAA T ₁₄
195	247	688	ATAAATAAATACAAAAATCAGCAAGAAAGAGAGTAAGATTGTGATTAAT T ₈
☆195	247	457	ATAAATAAATACAAAAATCGACAGAGAGAAAAGTAGGATTGTGATTAAT T ₇ AT ₄
☆199	243	462	ATAT ACAAATACAAAAATCGATAGAAAAGAAAGTGAGATCATGATT TAT ₁₂
☆204	247	5008	ATATAT ACAAACAATAACAGAGATCGACGAGAAAAGAAAGTGAGATT TAT ₁₂
☆229	274	289	ATA TACAAAACAATCTAACAGTGATAGTAACAGATAGATATAGAGATT T ₁₀
☆258	299	18740	ATATAT AAATCAAATAAACTATGTAGAAAAGTTACGAGATAGATTTAATA T ₁₀
☆258	300	814	ATATAT AAATCAAATAAAATTACGTAGAGAGTTACAGAATAAGTTTAAAT T ₁₀
☆261	299	181	ATATAT AAATCAAATAAACTATGTAGAAAAGTTACGAGATAGATTT T ₈
265	310	4418	ATAAAACACAAAAATCAAGTGAACATATGTAGAGGATTGTAAGATAA T ₁₃
265	308	4452	AAA AAAACACAAAAATCAAGTGAACATATGTAGAGGATTGTAAGATAA T ₁₁
☆267	306	435	ATATAT AACACAAAAATCAGATAGACTATGTAGAAGATTGTGAAAT T ₁₁
□284	321	21	ATATAAA GATACAACGTAATAAGGCATAGAAGTTAAGTGAATTAT TGT ₁₂
293	320	1024	AATACTGT ATATGATGTAGTAAGATATAGAGATTAA T ₁₀
□293	335	1	AAAAACAATACTGGATATGATGTAGTAAGATATAGAGATTAA TAACT ₆

mRNA 5'	mRNA 3'	copy #	COIII major gRNA classes continued
323	365	33179	ATAT ATAAAACAACTCGCTATGTAAGAACTGTAAAAAGTGATATT AT ₁₁ G
□323	365	301	ATAT ATAAAACAACTCGCTATGTAAGAACTGTAAAAAGCGATATT AT ₈ CT ₅
□330	365	856	ATAT ATAAAACAACTCGCTATGTAAGAACTGTAAAAA GTGATATT T ₉
☆345	391	522	ATATAT ATAATACAACAAGGAGCGTCATAAGTAAAGTGAATTCGTTATAT T ₁₂
345	391	203	ATATT ATAATACAACAGAAAATGTCATAAGTGAGATGAATTCGTTATAT T ₈
☆362	406	101	ATATAT ATAAACATAAATCAGATAGTACAATGAAGAGTGTATAGATAA T ₉
376	418	9942	ACA TATAACACAAAAATAGACATAGACTGAATGATGCAGTGAAA T ₁₂ G
376	418	169	ACA TATAACACAAAAATAGACATAGACTGAATGATGCAGTAAAA T ₄ AACT ₆
☆378	422	1634	ATAT AACTTACAACACAGAGATAGACATAGATCAGATAATGTGATAA T ₁₃
□384	418	185	ACA TATAACACAAAAATAGACATAGACTGAATGATGCA TTGAAAT ₁₁
☆397	426	15	AAAACGAT AGCAAATTCATGACGTGAAAAATAGATGTAA T ₁₁
☆397	436	10	AAAA AAAAAACGAAAGCAGATTACGGTACAGAGATAGATATAG T ₉ G
☆410	449	125	ATATA ATATAAGGTAATGAGAGACGAGGGTAGACTTGTGATATA T ₉
☆411	449	20772	ATATATA ATATAAGGTAATGAGAGACGAGGGTAGACTTGTGATAC TAT ₁₂
☆413	449	224	ATATATA ATATAAGGTAATGAGAGACGAGGGTAGACTTGTGAT T ₁₀
☆409	438	1420	ATAATAAGGTAT ACAGAGAACGGAAGCAGACTTATGATATAA T ₁₂
418	467	451	ATAC TATAATAAACACAAAATGTGTAAGGTAGATAAGAAGTGAAGGTAAATT ATAT ₄
☆437	469	238	A TACATAATAACAATGAGATATATAAGGTGAAT CGAAAGTGAATAT ₁₂
456	499	936	ATAT AAAATACCAATAAAGAACAGAATTATAGTTGTATGATAGATAA AT ₁₂
☆461	497	66677	ATACAT AATACCAATAGAAGACAGAATTGTAGTCATGTGATA TTCAT ₁₄
☆461	497	5941	ATACAT AATACCAATAGAAGACAGAATCGTAGTCATGTGATA TTCAT ₁₃
☆461	497	139	ATACAT AATACCAATAGAAGACAAAATGTAGTCATGTGATA TTCATAT ₁₁
☆462	497	371	ATACAT AATACCAATAGAAGACAGAATTGTAGTCATGTGAT T ₁₁
486	539	653	ATA TAAATAAAATGTATTTGTCAATGGATTAGATGAATTTAGAGAATATTAATAG T ₄
487	539	847	ATA TAAATAAAATGTATTTGTCAATGGATTAGATGAATTTAGAGAATATTAATA TTAT ₁₁
488	539	4441	ATA TAAATAAAATGTATTTGTCAATGGATTAGATGAATTTAGAGAATATTAAT TTCT ₈
490	539	1630	ATA TAAATAAAATGTATTTGTCAATGGATTAGATGAATTTAGAGAATATTA T ₈ CT ₆
491	539	145031	ATA TAAATAAAATGTATTTGTCAATGGATTAGATGAATTTAGAGAATATT T ₁₀
□491	539	849	ATA TAAATAAAATGTATTTGTCAATGGATTAGATGAGTTTAGAGAATATT T ₁₀
□491	539	482	ATA TAAATAAAATGTATTTGTCAATGGATTAGATAAATTTAGAGAATATT T ₈ GTT
□491	539	353	ATA TAAATAAAATGTATTTGTCAATGGATTAGATGAATTTAGAAAATATT T ₉
□495	539	1052	ATA TAAATAAAATGTATTTGTCAATGGATTAGATGAATTTAGAGAAT T ₁₁
□498	539	1118	ATA TAAATAAAATGTATTTGTCAATGGATTAGATGAATTTAGAA TATTAATAG T ₄
□502	539	448	ATA TAAATAAAATGTATTTGTCAATGGATTAGATGAATTT TAGAATAT ₆ CT ₅
☆504	535	599	ATAT ATAAAAATGTATTTGTGCGAGGTTAAATGGAT GTAGAAGAT ₁₂
☆524	564	77	ATATAT AAATTAACAAATAGACTACTAATAAGTGAGTAAGATGTATT AAT3ATATAT ₄
☆528	565	188	ATATAT AAAATTAACAAGTGAATCACTAACAGATAGATAGAATG ATAT ₁₂ A
☆528	564	181	ATATT AAATTAACAGATAAGCCACTGACAAATAGATAGAGTG ATAT ₁₂
☆545	592	150	ATATAT AAACCTAAATCAAGAACATAGAACAGAGAGATTAGTGAGTAAATTATT T ₅ AT ₄
☆547	592	1442	ATATAT AAACCTAAATCAAGAACATAGAACAGAGAGATTAGTGAGTAAATTA AT ₁₁
☆548	592	99540	ATATAT AAACCTAAATCAAGAACATAGAACAGAGAGATTAGTGAGTAAATT T ₁₁ G
☆550	592	176	ATATAT AAACCTAAATCAAGAACATAGAACAGAGAGATTAGTGAGTAAA AT ₁₁
☆548	592	238	ATATAT AAACCTAAATCAAGAACATAGAACAGAGAGATTAGCGAGTAAATT T ₉
☆548	592	114	ATATAT AAACCTAAATCAAGAACATAAAAACAGAGAGATTAGTGAGTAAATT T ₁₀
☆551	592	599	ATATAT AAACCTAAATCAAGAACATAGAACAGAGAGATTAGTGAGTAA T ₁₃
☆554	592	504	ATATAT AAACCTAAATCAAGAACATAGAACAGAGAGATTAGTGAG AAAAT ₁₃
☆555	594	27720	ACAT AAAACCTAAACTGAGAATACGAGACAAAGAAATTAGTGA TTAAAT ₁₂
☆558	592	309	ATATAT AAACCTAAATCAAGAACATAGAACAGAGAGATTAG GGAGTAAAT ₁₄
☆558	594	147	ACAT AAAACCTAAACTGAGAATACGAGACAAAGAAATTAG GGATTAAT ₁₁
☆558	593	128	ACATT AAAACCTAAACTGAGAATACAAGACAGAGAGATTAA GGATTAAT ₁₂

mRNA 5'	mRNA 3'	copy #	COIII major gRNA classes continued
580	622	145	ATATAT ATCATAATACAAGCAATGACGACGAGAAGATTTAGATTAA T ₁₁
☆585	629	85916	ATATA GAACTCAATCATAATATGAAGCAATAACAATGAAGAGATTTAA T ₁₂
☆586	629	1991	ATATA GAACTCAATCATAATATGAAGCAATAACAATGAAGAGATTTA T ₁₁ C
☆587	629	9106	ATATA GAACTCAATCATAATATGAAGCAATAACAATGAAGAGATTT T ₁₁
☆588	629	221	ATATA GAACTCAATCATAATATGAAGCAATAACAATGAAGAGATT AAT ₈ AT ₄
☆585	631	1447	ATAT ATAAACTCAATCATAGTATAAGATGACGACAATGAGAAGATTTAA T ₁₂ C
☆585	629	276	ATATA GAACTCAATCATAATATGAAGCAATAACAATGAAAAGATTTAA T ₁₂
☆590	629	131	ATATA GAACTCAATCATAATATGAAGCAATAACAATGAAGAGA ATTAATTAT ₆
☆591	629	263	ATATA GAACTCAATCATAATATGAAGCAATAACAATAAGAGA T ₃ AAT ₇
☆592	629	269	ATATA GAACTCAATCATAATATGAAGCAATAACAATGAAGA TTTAAT ₅ AT ₈
☆594	629	150	ATATA GAACTCAATCATAATATGAAGCAATAACAATGAA TAGATTTAA T ₆
☆604	647	10315	ATACAAAAAC AAAAACCAAACGATGAACTTGATTGTAGTATAAGATAATA T ₁₃
☆605	647	7606	ATACAAAAAC AAAAACCAAACGATGAACTTGATTGTAGTATAAGATAAT T ₁₁ AT
☆604	643	250	ATACAAAAACAAAAT ACCGAGCGACAGATTTGATTGTAGTATAAGATAATA T ₁
☆607	647	637	ATACAAAAAC AAAAACCAAACGATGAACTTGATTGTAGTATAAGATA T ₉ GT ₁₁
☆635	669	482	ATATACAATGCAAACCTTA CATGACTGGTTTTATAGAGATGAGAGATTAA T ₁₁ CTT
□635	685	2	AT ATACAATGCAGACTCTTATAACTGGTTTTATAGAAGTGAGAAATTA T ₁₄
☆659	691	649	ATAT TAAATAACAATGCGAATTTTCATAGTTGGTT CATAGATACAAT ₁₂
☆669	717	758	ATAAT AGAACACCACAGCTTAATGTAGTAGATGGCAGTGTAATTTTT T ₇ ATT
☆669	706	354	ATATAGAACCAAAAACAG TGCAATTTAGTGTGATAGATGATAGTGTAATTTTT T ₇ A
☆669	715	160	ATATAGAACCAAT AACATCGCGACTTAGTGTGATAAGTAATAGTGTAATTTTT T ₇
☆669	722	374	ATAT AATCAAAAACCCGTAACCTTGATGTAGTAGATAGTAGTAAATTTTT T ₇
699	748	977	ATATA TAATAAATCCAATGAAGATAAAGTAGAGTCAGAGATATTATGATT T ₁₀
701	748	2726	ATA TAATAAATCCAATGAAGATAAAGTAGAGTCAGAGATATTATGAT AT ₁₃
☆706	753	31331	ATATAT AAATGTAATAGATCTGATGAAAGTGAGGTAGAATTGAGAATATT T ₁₀
☆707	753	8037	ATATAT AAATGTAATAGATCTGATGAAAGTGAGGTAGAATTGAGAATAT AT ₁₄ GCCTAAC
☆713	753	595	ATATAT AAATGTAATAGATCTGATGAAAGTGAGGTAGAATTGAGAAT T ₉ AACCC
☆715	753	182	ATATAT AAATGTAATAGATCTGATGAAAGTGAGGTAGAATTGAGA TTTAT ₈
☆719	753	131	ATATAT AAATGTAATAGATCTGATGAAAGTGAGGTAGAATT TAGAATATAT ₈
☆707	753	206	ATATAT AAATGTAATAGATCTGATAAAGTGAGGTAGAATTGAGAATAT AT ₆ AT ₆
□706	753	6744	ATATAT AAATGTAATAGATCCAATGAAGGTAAGATAGAACTGAGAATATT TTTGT ₅
□707	753	3791	ATATAT AAATGTAATAGATCCAATGAAGGTAAGATAGAACTGAGAATAT AATTAT ₇
□713	753	154	ATATAT AAATGTAATAGATCCAATGAAGGTAAGATAGAACTGAGAAT T ₇ GT ₆
□706	753	1214	ATATAT AAATGTAATAGATTCAATGAAGGTAAGATAGAACTGAGAATAT T ₄ CT ₄
□707	753	1124	ATATAT AAATGTAATAGATTCAATGAAGGTAAGATAGAACTGAGAATAT AAT ₁₄
707	752	848	ATATAT AATGTAATAAATCTAATAGAGATAAGATAGAACTGAGGATAT AT ₁₂
☆723	765	2739	ATATAT AACATGCATAAGATGTAGTGAATCTAGTAAGAGTAAGATAG T ₁₂ CT
☆728	767	1193	ATATAT AAAACATGCATAGAGTGTAGTAAGTTCACTGAAAGTGA TATAGT ₃ CT ₄
☆754	790	153	ATATAT TAAACAACAACAGAACGCTCTAAGAGAGTATGTATA TGATGTAAT ₁₅
☆755	815	1	AAATTAACAGACGTATGAAGCAAGTAGATAACAACAAGACACTTAAGAGGGTATGCAT T ₃

mRNA 5'	mRNA 3'	copy #	COIII major gRNA classes continued
☆771	814	138	ACATAT AATTAAACAAACGTATAGAGCAAGTAAGTAGCAGTCAAATATTT T ₈ GT ₃
☆771	815	25628	ATAT AAATTAACAGACGTATGAAGCAAGTAGATAGTGATAAGATACTT T ₁₀
☆772	815	111116	ATAT AAATTAACAGACGTATGAAGCAAGTAGATAGTGATAAGATACT AT ₁₄
☆773	815	136	ATAT AAATTAACAGACGTATGAAGCAAGTAGATAGTGATAAGATAC AAT ₁₁ A
☆775	815	323	ATAT AAATTAACAGACGTATGAAGCAAGTAGATAGTGATAAGAT T ₁₃ G
☆777	815	188	ATAT AAATTAACAGACGTATGAAGCAAGTAGATAGTGATAAG TTACTAT ₅
☆778	815	315	ATAT AAATTAACAGACGTATGAAGCAAGTAGATAGTGATAA TTTTTTAT ₄
☆772	815	230	ATAT AAATTAACAGACGTATGAAGCAAGTAGATAGCGATAAGATACT AT ₈ AT ₆
☆772	815	281	ATAT AAATTAACAAACGTATGAAGCAAGTAGATAGTGATAAGATACT AT ₁₁
☆788	829	5	ATATA TATCCATACACAGAAAATTAGATGAACGTGTAATAATGAGTAA TTAT ₆ AT ₆
☆796	829	24	ATAACAAAACGTGA TATCCATATACAGAGAATTAGATAGATGTATAA T ₆
☆802	842	116	ATAT AAAACAAAACGTGTATTCATATATGAGAGATTAAGTAAATG ATTTTTAT ₁₀
814	854	66	ATAT ATACAATACAAAGAAGCGAAACGTGTATCTATATATGGAAA T ₆
☆838	882	109	ATACAA TAAATCAACAAGATGTCGATATAGATGGATATGATATGAGAGAAT T ₆ CT ₈
846	891	138	ATAT AAATCAAATAAATTAGCAAGGTGTCAGTGTAATGAGCATGATAT T ₆ GT ₆
☆848	890	9675	ATATAT AATCAAATAAATTGACGAGATGTTGATGTAGATAGATATAAT AT ₈
880	918	1822	ATATAA ATCAGAATAAACAGATCGCAATAGAGAGAATTAAGTTAA TAT ₁₃ C
☆882	927	600	AA ATATAAAACATCAAGATAAATGGATTGTGATAGAGAAAAGTTAAAT T ₁₁
☆907	947	787	ATATAA TATACACACAGATACATAATACGTAGAATGTTAAGATAAGT T ₁₃ GTT
☆909	950	126	ATATA ATTACACACACAGATACGTGATATATAGAATGTTAAGGTAA TATAAT ₁₀
☆913	946	558	ATAC ATACACACAAATATATAACATATAGAGCATTGAG TTAGATAAT ₁₅
935	977	2920	ATATA AATCAACAACGTGAAAAGATATCAATGAGATTGTACATGTAAAT T ₁₂ GTT
☆942	983	1160	ATAT AACTAATCAACAGCTAAGAGAACGTCAATGAGATTATGTG ATTAAT ₁₄
☆963	1003	111	ATA TACAAACTACCAATATAAGTTAACTGATCGGTAATTAAGG TTATAT ₈ AT ₆

Supplementary Table 2: C-Rich Region 3: Major gRNA classes

mRNA 5'	mRNA 3'	Copy #	CR3 Major gRNA Classes
☆34	62	18	ATATGT ACAACAAAACCGAGCAATCAGATAT AGAGTCAAAT ₉
☆40	88	34162	ATATAT AAAATGTACAAACGGACAATGAGAGAACAGTCAAATTAGATGATT T ₁₂
☆41	88	140541	ATATAT AAAATGTACAAACGGACAATGAGAGAACAGTCAAATTAGATGAT AT ₁₃ C
☆46	88	468	ATATAT AAAATGTACAAACGGACAATGAGAGAACAGTCAAATTAGATGA AATAT ₁₄
☆47	88	1270	ATATAT AAAATGTACAAACGGACAATGAGAGAACAGTCAAATTAGATG T ₁₁
☆48	88	902	ATATAT AAAATGTACAAACGGACAATGAGAGAACAGTCAAATTAGAT T ₈ GT ₅
☆49	88	177	ATATAT AAAATGTACAAACGGACAATGAGAGAACAGTCAAATTAGA AGATATAT ₁₁
☆50	88	182	ATATAT AAAATGTACAAACGGACAATGAGAGAACAGTCAAATTAG TTGTTAATAT ₁₁
☆51	88	632	ATATAT AAAATGTACAAACGGACAATGAGAGAACAGTCAAATTA TATGATAATAT ₄
☆52	88	648	ATATAT AAAATGTACAAACGGACAATGAGAGAACAGTCAAATT T ₉
☆55	88	170	ATATAT AAAATGTACAAACGGACAATGAGAGAACAGTGAA T ₆ T ₁₂
☆56	88	133	ATATAT AAAATGTACAAACGGACAATGAGAGAACAGTGA T ₁₂
☆40	88	151	ATATAT AAAATGTACAAACGGACAATGAGAGAACAGTAAAATTAGATGATT T ₅ GT ₆
☆41	88	693	ATATAT AAAATGTACAAACGGACAATGAGAGAACAGTAAAATTAGATGAT AT ₁₂
☆41	88	212	ATATAT AAAATGTACAAACGGACAATGAGAGAACAGCGAAATTAGATGAT ATCT ₇
☆41	88	135	ATATAT AAAATGTACAAATGGACAATGAGAGAACAGTCAAATTAGATGAT AATAT ₇
☆41	88	181	ATATAT AAAATGTACAAACGGACAATGAGAAAACAGTCAAATTAGATGAT ATCT ₁₅
☆41	88	106	ATATAT AAAATGTACAAACAGACAATGAGAGAACAGTCAAATTAGATGAT AATAT ₈
☆41	88	155	ATATAT AAAATGTACAAACGAACAATGAGAGAACAGTCAAATTAGATGAT AT ₁₃
	40	77	ATATATAAAATGTACAT ACGAACGATAAAAAGGCGAGTCAAATTAGATAATT TT
☆48	87	3434	ATATAATT AAATGTACAGACAAATGATAGAGAGCGATGAGATTAAGT TATAT ₁₂
	51	88	ATAT AAAATGTACAGACGAGCAGTGAAGAGACAGTGAATTA TACAT ₁₁
☆51	86	3016	AAAAATT AATGTACAAATAAACGATAGAGAGACAGTGAATTA TGAT ₁₃
☆78	118	573	ATATAT AATCACAAACAAATAGAAAATGAGAGAGGTGTATGA TACTAT ₅ CT ₅
☆105	140	15770	A TAGATAACAAACATAAGAGCAAGTCACGAG GTAGATATTGATAT ₁₃ C
☆122	166	27885	ATAGAAATCCAATAAGAGACAGAAGCTAGATAATGAGTATAAGA TAT ₁₃
☆124	166	212	ATAGAAATCCAATAAGAGACAGAAGCTAGATAATGAGTATAA T ₁₁
☆125	166	139	ATAGAAATCCAATAAGAGACAGAAGCTAGATAATGAGTATA T ₆ CT ₁₀
☆127	166	114	ATAT ACAAATCCAATGAAAAATAAAGACTGAGTGGATG CAAT ₄ CT ₁₀
	123	162	ATATAT AAATCCAATAAGAAATGAAAGCTAGATAGTGAATTAAG T ₁₂ GT ₃
☆154	196	1492	ATAT ATACAACAATAAACTCGTATTAAGTGAAGATGAAGATTTAAT T ₈ AT ₄
☆156	199	136	ATAT TAAACACAACGATAGATCTATATTAAGTAGAAGATAGAAATTTA TTTAT ₁₂
☆190	230	2	ATATACA ACATATCAAGTGGTAAGATAAGAGAAGAAAGTAGATGTAAT T ₆
☆231	276	2	AT ATAACAATA C AAATGAGCTAGATAATGGATGATAGTTTGGATAT T ₁₂
☆237	279	1	TAT AAAATAACAATA C AAGTGAATTAGATAATGGATGATG TTTCAAT ₁₅
☆226	277	19	ATAT AATAACAATATAAACGAACCTGGATGATG T ATAGT A CTTTGATATATA AT ₁₂
☆279	308	2	ATATAT AAATTATTTGCATACT G AGAT T AGT G ATAGTAAAGTGATTAAT ₁₄

Supplementary Table 3: C-Rich Region 4: Major gRNA classes

mRNA 5'	mRNA 3'	copy #	CR4 Major gRNA classes
☆25	64	121	ATAAT AAAAATGCACAACCTAGAATTGAAGTAAAGTGATGATA TATAT ₆ GT ₅
48	103	296	ATA TATATAAAAACACAGACATACTAAGTAAGAGAAAAGAGAGGTGTATGATT T ₅ CT ₆
☆87	134	7793	ATATAT AAACAACAATAGAGTATATCATAGACTGTATATGAAGCATAAAAT T ₁₀
☆88	134	208	T ATATAT AAACAACAATAGAGTATATCATAGACTGTATATGAAGCATAAA AT ₅ CT ₇
☆89	134	426	ATATATAT AAACAACAATAGAGTATATCATAGACTGTATATGAAGCATAA CT ₈
☆90	134	143	ATATATAT AAACAACAATAGAGTATATCATAGACTGTATATGAAGCATA T ₈ AT ₄
☆93	139	200	AAA AAACAAAACAACAGTGAATATACCGTAGATTGTATGTGAAAT TATATAT ₆
☆127	171	2	ATAT ATATACTCACACAAATAGATGAGAGAGATAGAAAAGTAAGATGATA TAT ₁₃
154	192	3603	ATATTA AACTATAACAAGGCAGATAGAACGTACCTATATAGATAA T ₁₄
186	214	7	AAATCACAGCCTAAAATGACGAGAGAAAAGTAAATGGTTATA T ₁₃ AA
186	214	1	TAAAAAATCACAGCCTAAAATGACGAGAGAAAAGTAAATGGTTATA TAGAT ₅
☆217	261	14358	ATAT ATAAACTATACAATTGAAGCACTGATAGAAGGTTGTGATT TAAT ₁₂
☆222	261	112	ATAT ATAAACTATACAATTGAAGCACTGATAGAAGGTTG ATTTAATAT ₈
☆217	261	264	ATAT ATAAACTATACAGTCAAGCACTGATGAGAGATCGTGATT TAAT ₁₃
☆242	284	9	AAAAAAA AAAATTATAACGTCATAGAAGAGATAGACTATATGATTAA T ₉
☆244	295	14	AT AGAAAATAAACAGAAATTGTGACGTCATAAAGAAGATAGATTATATAGTT T ₁₄
□280	321	94	AAAAA AAAAAACACAAGCGAGATAGAGAAAAGAGATAAATAAGATT T ₅
□281	321	631	AAAA AAAAAACACAAGCGAGATAGAGAAAAGAGATAAATAAGAT GT ₅ AT ₄
☆307	352	259	AAAAT ACCAAACAGATCAGATAAAGGCAGTGATATAGAGAATATAAAATA T ₁₂
☆308	352	725	ATAAAAT ACCAAACAGATCAGATAAAGGCAGTGATATAGAGAATATAAAAT T ₁₁
☆310	352	214	ATAAAAT ACCAAACAGATCAGATAAAGGCAGTGATATAGAGAATATAAA T ₁₂
☆312	354	675	ATAT AAACCAACAAGCTGAATAAGAACAGTGATATAGAAGATATA TAT ₁₄
☆325	355	140	AT AAAACCAGACAAACTGAATGAAGACAGTAACTAGAGAAGATAT T ₁₀
☆344	389	863	ATAT ATAACACAAAACATAACAGAGAGTATAGAGAGAAATGAATGA T ₉ AT ₅
☆375	418	411	AAAA AAAAAACAACATAGAAAGTGAATCAGAGAATGACATAAGATATA T ₄ CT ₆
☆378	418	447	A AAAAAACAACATAGAAAATAAGTCAGAGAGTAAATATGAGAT TGTTATAAT ₅
☆405	458	4211	AAAAAAAAAAACAAAGACAAAGAAATCACTCAGAATAGAAGATGGTATAA T ₉ CT ₄
☆406	457	620	AAAAAAAAAAACAAAGACAAAGAAATCACTCAGAATAGAAGATGGTATA T ₅ CT ₇
☆407	458	392	AAAAAAAAAAACAAAGACAAAGAAATCACTCAGAATAGAAGATGGTAT T ₇ AT ₄
☆406	458	406	AAAAAAAAAAACAAAGACAAAGAAATGCTCTAAGATAGAGAATGATATA T ₇ CT ₇
☆410	458	185	AAAAAAAAAAACAAAGACAAAGAAATCACTCAGAATAGAAGATGG GATAAAT ₈
☆441	490	238	ATAACAACCACAGATAGAAATGAACGTAAATGAGAGAGAAAAGATGAAAGT T ₁₁
☆443	490	3197	ATAACAACCACAGATAGAAATGAACGTAAATGAGAGAGAAAAGATGAAA T ₁₂ G
454	498	1153	AT ACAAATAACAACAATCATAAGTAAGAATAGATGTAGATGAGAAA T ₁₁
☆454	495	282	ATATAT AAATAACAACAATCAGATGAAGGTAGATATAAGTGAAGAAA T ₁₃ G
☆476	520	766	ATATAT AATAACAACAATAATCAGATTAGCAGAGTAAATGATAGTTATAAAT T ₁₂ G
481	525	390	ATACAAATAACAACAATAGCCAAGTAAATAGAGTGTATGATGATTA AT ₁₄
☆504	548	53	AAAAAAAAAA GCATATAAATAGATCTATATATGAGTGATAGTGACAATTA T ₁₅
☆505	548	50	AAAAAAAAAA GCATATAAATAGATCTATATATGAGTGATAGTGACAATT TCT ₉
☆505	555	146	AA AAAAAACGCATATAAGTGAGCCTATACATAGATAATGATGATAATT TTT
☆543	576	511	AAA TTTATAAAACCAAT#CCGTAATTATCTGAGATGAGAAGTGTATA AT ₁₂

Supplementary Table 4: Cytochrome b major gRNA classes

mRNA 5'	mRNA 3'	copy #	CYb Major gRNA Classes
☆29	62	4	ATAAGAATAACGT AGAAAATAATAGGGATTTATGATGAGATATATTT T ₁₅
☆32	62	65	GT AGAAAATAATAGGGATTTATGATGAGATATG CTGTGGATAGT ₁₂
☆32	59	327	AAATAATAGGGATTTATGATGAGATATG CTGTGGATAT ₁₄
☆32	60	255	AAAATAATAGGGATTTATGATGAGATATG CTGTGGATAT ₁₂
☆32	61	190	AAAAATAATAGGGATTTATGATGAGATATG CTGTGGATAT ₁₃
☆32	64	176	AA AAAAAATAATAGGGATTTATGATGAGATATG CTGTGGATAGT ₉
☆50	91	5*	AAAAAAA AAAAGACAATATAGATTTCTGGGTGATAAAAAGGATAATAAA T ₅
☆51	91	10649	AAAAAAA AAAAGACAATATAGATTTCTGGGTGATAAAAAGGATAATAA CT ₅ GT ₅
☆52	91	908	ATAA GAAAGACAATATAGGTTTCTGGGTAATGGAGAGAATAATA T ₁₂ CT ₃
☆53	91	18713	AAAAAAA AAAAGACAGTGTGAATTTCTGAGTAATAAAGGAATAAT T ₁₁
□54	91	339	AAAAAAA AAAAGACAATGTAGATTTCTGAGTAATGGGGAGGATAA CTAT ₃ AT ₅ *

*matches gCYb560A except for A-run at 5' end.

Supplementary Table 5: MurfII major gRNA classes

mRNA 5'	mRNA 3'	Copy #	Murf II Major gRNA Classes
30	79	2605	ATAG AAAGCACAAAAATAAAATTAATTAGAGTAATTGGATGTTAAAAAT T ₃ CT ₇

Supplementary Table 6: ND3 (CR5) major gRNA classes.

mRNA 5'	mRNA 3'	Copy #	ND3 Major gRNA Classes
☆31	79	70	ATAT ATAATAAACACAGTATCAGAGACAGATATAGAAGTGATGATAGT T ₆ CT ₆
☆33	76	313	ATATATT ATAAACCATGATATCGAAAATGGGTGTAGAAATGATGATA T ₁₂
☆63	113	1006	ACATAAGAAACATAAAGAAAAATCTGTGAGTAGACTGATAAGTTATAAT T ₁₁
☆64	113	84	AT ACATAAGAAACATAAAAAGAAATCTGTAAGTAGACTAGTAAGTTATAA GT ₁₄
☆65	113	411	ACATAAGAAACATAAAGAAAAATCTGTGAGTAGACTGATAAGTTATA T ₈ GT ₆
99	143	826	AT ATGAAAACAATCAAAGAAGTGTGATAGAAAAGTATAAAAAGGTATAA T ₁₁
☆130	170	507	ATATAT CAAATCACACGAAGATCATAGATGACGATGAAGGTAGTTAA TAT ₇ GT ₁₀
☆130	170	413	ATACAT CAAATCACACGGAAATCATAGATGGCAATGAAGATAGTTAA T ₁₁
155	189	236	AAATAAACACC AACGTGAATTTATATTGTATAGATCGTATGAGAAT AT ₁₀ GTTGT
☆158	205	412	T ATGTATAAACATTAATGTGAGTTTGTGTCGTGATGATTATGTGAA T ₁₅
☆190	229	4864	ATATAT AACACTAACAGAATATAGATCTGATGTATAAGATATCA T ₁₃ G
☆190	229	123	ATATAT AACACTAACAGAATATAGATCTGATGTATAAGATATCG T ₁₃
☆222	264	384	AAAAAT AACACAGATAATGGAATTTAATGATATGAGAAATGGATGATTA T ₅
☆223	264	164	AAAAAT AACACAGATAATGGAATTTAATGATATGAGAAATGGATGAT TCT ₁₇
☆222	263	3165	ATAT ATACAAATAATGGGATTTAACGATATAGAGGATGAATGATTA T ₁₃ AT
☆223	263	3225	TTAT ATACAAATAATGGGATTTAACGATATAGAGGATGAATGAT T ₁₁
☆223	263	106	ATAT ATACAAATAATGGGATTTAACGATATAGAGAGTGAATAATT T ₄
☆253	299	106	ATAT AATAAACAACTATTACAAAGATAGACAGTGAATATAGATAAT T ₇ CT ₅
☆253	299	260	ATAT GATAAACAACTATTATGAGAACGAGTGATAGAATATAGATAAT TTCT ₁₄ AT
☆253	298	83	ATACAT ATAAACAACTATCATAGAAGCAGACAGTGAATATAGATAAT T ₈ CT ₆
☆282	329	64*	ATAT AAAACCACAAAAATAGAAAGCTATAATAGAGATAGAATAATGTTATT CT ₉
☆284	329	786	ATAT AAAACCACAAAAATAGAAAGCTATAATAGAGATAGAATAATGTTA AT ₆
☆285	329	282	ATAT AAAACCACAAAGGTAGAAGATCGTAATAGAGATAGAATAATATT T ₉
☆285	329	168	ATAT AAAACCACAAAAATAGAAAGCTATAATAGAGATAGAATAATGTT T ₇ CT ₄
☆288	320	435	ATTTTAAGTT AGAGTGAGAAATGTAGTGGAAATAAGATGATA AAAT ₁₁
☆300	333	268	AT AACAAAACCACAGAGATGAGAGATTGTAATAAG TATAGTGATAAT ₁₃
321	369	3062	ATAT AATACCACATGAATCTTATATGTACGATGGAAGATGAGAATTATG TTTCT ₆
322	369	48018	ATAT AATACCACATGAATCTTATATGTACGATGGAAGATGAGAATTAT T ₁₃
□322	369	142	ATAT AATACCACATGAATCTTATATGTACGATGGAAGATGAGAATTAT TCT ₁₀
324	369	5034	ATAT AATACCACATGAATCTTATATGTACGATGGAAGATGAGAATT T ₁₀ G
☆345	388	82	ATATGTAAC AATATACGTGATCTCAGAGATACTATGTGAATTCTATGT T ₇
☆347	388	95	ATATGTAAC AATATACGTGATTCAGAGATACTATGTGAATTCTAT TTTAT ₁₈
☆402	438	417	ATATA TATAATACAACAAGGAGCGTCATAAGTAAAGTGAA TTCGTTATAT ₁₃
402	438	128	ATAT TATAATACAACAAGAAATGTCATAAGTGAGATGAA TTCGTTATAT ₉

Supplementary Table 7: ND7 major gRNA classes

mRNA 5'	mRNA 3'	copy #	ND7 major gRNA classes
☆28	71	6*	AAT ATACAAATGTAAGAAAACATATCGAGAGTGATGTAGAATGATATT AT ₁₃
☆35	69	765	ATATA ATAAATGTAAGAGACTATTGAGAGTGGCATAAGG GATATTAT ₁₁
☆36	69	100761	ATATA ATAAATGTAAGAGACTATTGAGAGTGGCATAAG TGATATTAT ₁₄
☆36	71	240	AAAT ATACAAATGTAAGAAGCTATCAGAGGTAATATAAG TGATATAAT ₁₃
☆36	69	121	ATATA ATAAATGTAAGAGACTATTGAGAGTGACATAAG TGATATTAT ₁₃
☆38	71	113	ATAT ATACAAATGTAAGAGACTATCGAGAGTGACATA TGTGATATTAT ₁₁
☆59	91	4376	ATATATAGATGCA GTGGGTCGAATGTAAGATGATATAGATGTGAA TGT ₁₂
☆95	132	1	AT ATAAACAACATAAAATACTATGTGATGTAGGAT CTGTGAATTAAT ₉
☆108	137	13	ATATAATAAACAACATAAAGTGCCATGTA ACT #CGAGAT TTTTAGATT
☆121	166	396	ATACAT ATATAAACAATGAATTCACGTGAAGATACGATAGATGATATA T ₉ GT ₄
☆124	168	3640	ATATA CAATATAAACAGTAGATTCACGTGAGAAGTATGATAGATAAT T ₁₀ G
124	170	3944	ATAC ATCAATATAAACGATAGATTTACCGTAGAAGTATAGTGAATAAT T ₁₀ AT ₃
☆139	170	1507	AT ATCAATATAAACAATAAGTTCGTCATAGA TTTACAGTAGATAAT ₁₂
☆147	199	563	ATATATA CACGATGCAGATAATCTATAGTATGATTGATATAAGTGATAAAT ₁₂
☆150	199	200	ATATATA CACGATGCAGATAATCTATAGTATGATTGATATAAGTGATAAAT AT ₁₂
152	190	988	AAATTACGATGCAT AATAATCTATGGTACAGTTGATATGAGTGATAA T ₇ CT ₄
☆246	269	2470	ATATCAAC ACATAATCTGACTTGTCCGAGTAT CTAAGGAATAAAT ₁₄
☆256	311	78*	ATAT AACATAAAGACAATAAGTCTTATTACAGTGAACATTGATATAATTTAATTT TT
☆261	311	3259	ATAT AACATAAAGACAATAAGTCTTATTACAGTGAACATTGATATAATTT T ₈
☆261	310	146	ATAT ACGTAAAGACAATAGGTGTTTCATTCAGTAGATATTGATGTAATTT T ₁₀
☆260	293	133	ATATATAAGACAAC GATGCTCATTATGGTAGATACTGATGTAATTTA T ₇
☆261	293	2874	ATATATAAGACAAC GATGCTCATTATGATAGATACTGATGTAATTT T ₁₀
☆292	334	91	ATACT ACAACATCGCGATATATACTTGAATGTAAGGTGATAAA GT ₁₁
☆295	338	765	ATATA ACAACAACATCGTAATATGTGCTCCGAGTATAGAGATAAT TAAATAT ₁₃
☆297	338	888	AT ATAAATAACATCGCAACGTATATTCGAAATGTAGAGATA CAT ₁₁ GT
☆327	365	1225	ATACAT ATAAACGTATAGGTGCATAATGTAACGATGAATGATGTT AAT ₁₁
☆327	373	2128	A TATAATTAATAAACGTATAAATGTGCAGTGTGACGATGAATGATATT AT ₁₃
☆352	398	283	ATATA GAAACTFAC AG GTAATTTCTGCAATTAGTAGACGTGTAAT AT ₇
☆390	424	2283	ATATTAA ATACATGATATACGCGATAGATTATTAGAGTTATG AGTTAAT ₁₂ GT ₃
☆390	424	162	ATATTAA ATACATGATATGCGCAGTAGACTATTAAAGTTATG AGTTAAT ₁₂
☆391	427	200	AAATT ACCATACATGATATATACAGTGAACATTTAGAATTAT AGGTAATGT ₆
☆412	452	15183	ATATATAA GGAGACAAATGATCTAGATTCGAGACTGTATATGATATAT T ₁₃
☆416	452	199	ATATATAA GGAGACAAATGATCTAGATTCGAGACTGTATATGAT T ₇ AT ₅
414	451	223	ATATATAACAAC GAGACAGATAATCTAGATTTGAAGTTATATGTGATAT T ₁₂
☆416	464	5	AT ATTATAATAACGGAGATGAGCAATTTAGATTCAGAGTTATATGTGAT T ₁₃
☆452	501	3	AT AAAATGTCATCAATT AG TTCAGTTCTTTGAGTGATTGTGATAAT AT ₁₃
486	530	2523	ATATAA GCATACGACAATTACGATATGAGTCAGAGAATGTTGTTAATTT T ₁₁
☆499	526	2002	ATATATAA ATACGACAATCATAACGTGAATCAGAGA CTGTGATTAAT ₁₁
☆508	548	1129	ATAT AAATCATGAAAGCTGAGTGTGTATGGCAGTTACGATATA TGTTAAT ₁₄
508	544	116	ATATAAAA CATGGAAGCTAAGTGTGTATGATGATTATGATATA TGATTAAT ₆
☆526	569	3050	ATATAT ATCATCAAGAATATCTAATGAGACTATGAGAGTTAAATGTATA AT ₁₂
531	574	291	AAAT ACAAATCATCAGGATACTTGTAAGATTGTGAAAGTTAAGT T ₇ GT ₄ ATAT
☆540	576	544	ATAATAAT AAACAAATCATGAGAGTATCTGATAGAGTTATGA TAGTCAT ₅

mRNA 5'	mRNA 3'	copy #	ND7 major gRNA classes continued – page 2
562	603	267	ATATT ACAACAACAAGAAATCAATGAAGTCAGAGATAAAAGTTATTAA T ₉ GT ₅
564	596	173	TAGATATCAACAACAT CAGAGAATCAATGAACTAGAGATAGAGTTATT T ₁₀
☆564	615	1896	AT ATATTATCAACAACAATAGAAGATTGGCGAAATTAGAGATAGAATTATT T ₁₂
☆567	615	360	AT ATATTATCAACAACAATAGAAGATTGGCGAAATTAGAGATAGAATT T ₉
☆584	630	831	ATAAT TAACAACAATATGATATTATCAGTGA CAGTGAGAAATTGATA T ₉ AT ₅
☆596	642	20	ATA TATAACAATCCATAGCAGATAGACGTGATATTATTGATGATAGT TTAAAT ₁₈
☆629	670	1258	ATAT GATAACGATTACCTACAGATAATGAGTCATAGTGATTTATA T ₁₃
☆656	699	59	ATATAT ATGACAACTACGTAAGTGCAGATAAAAGTAAGTGATTATTT T ₅ CT ₆
☆679	711	1	ATAAGTCAGAAAGTGATAGATCGTGTAAT T ₁₅
☆679	727	2	AAAAAA AAAAATAAATCATATAAATTAAGGGTGATGAACTGTGTAAT T ₁₃
☆711	758	3229	ATATAT ACGAGACAAAATATCACTTAGATTATTAGAGATTGAGTTATA AT ₁₃
☆725	764	55757	ATATAA TAACGAACGAGGCAGAGTATCATTTAGACTATTAGA TTCAAT ₁₄
731	759	2867	ATATATAAT GACGAGATAAGACATCACTTAGACTGT AGAGAT ₁₂ GG
□751	794	174	AT ACTAAATAAACGACGATCTTATACTGTATCTGATGAATGGGATA TTAAT ₈ GT ₅
□755	794	167	AT ACTAAATAAACGACGATCTTATACTGTATCTGATGAATGA TATTAATTGT ₇
756	794	48263	AT ACTAAATAAACGACGATCTTATACTGTATCTGATGAATG TGATATTAAT ₁₄
□757	794	318	AT ACTAAATAAACGACGATCTTATACTGTATCTGATGAAT ATGATATTAAT ₄
☆777	822	5729	ATATAT TAAAATACAACCTTATGATGACTAAGTGAATGATGATT CAAT ₁₀
☆775	830	2644	ATAT ATAAAACATAAAATATGACTTGTAGCAGTTAAGTGAATGATGATTTT T ₈
☆778	830	25793	ATAT ATAAAACATAAAATATGACTTGTAGCAGTTAAGTGAATGATGAT AT ₁₂
☆778	830	134	ATAT ATAAAACATAAAATATGACTTGTAGCAGTTAAGTGAATGATGAT AT ₇
☆778	830	331	ATAT ATAAAACATAAAATATGACTTGTAGCAGTTAAGTGAACGATGAT ATTAAT ₁₄
☆778	830	450	ATAT ATAAAACATAAAATATGACTTGTAGCAGTTAGGTGAATGATGAT ATTAAT ₁₃
778	833	903	AAATA ATAACAAAACATGAGATATAACTTGTAGTGATTAGATGAATGATAGT AT ₁₃
780	833	2079	AAATA ATAACAAAACATGAGATATAACTTGTAGTGATTAGATGAATGATA T ₁₃
781	833	2373	AAATA ATAACAAAACATGAGATATAACTTGTAGTGATTAGATGAATGAT T ₁₁
☆790	839	52	ATAT ATAATCATAACAAGATGTAGAGTACGATTTATAGTGATTAA T ₁₂
☆792	845	98	ATAT AAAACAATAATCATGATGAGATATAAAGTGCAGTTTGTGATAATT T ₅ GT ₄
☆834	877	1279	AT ATAAACGGTCAAATGTATTGCTTGTAAAGGTAGAGGTGATAATT T ₇ CT ₅
☆843	877	26437	ATAT ATAAACGGTCAAATGTATTACTTATAAGATAGAG TTGATAAT ₁₃ C
☆863	902	2491	ATATA ATATGCATATCAGATAGACGTAGAAATAAGTGATTAAAT T ₁₀
☆872	916	3	ATATAA AATCAACAATTCGTATGTATATCGAGTAAATGTAGAAATAAAT T ₉
☆901	939	1365	ATATAT ACTAATAAAAAGGCATTGCTTACAGATTGATAGATTTAT T ₁₂
907	947	24	ATAAAGAAACCAACAGAAGAATATGCTTGTAAAGTTAATGA TCTGTAT ₁₀
☆931	978	3513	ATATAT TCAACAACAGATAGAACCAGAGACGAGAAGATTGATGAA T ₁₂
☆932	978	44852	ATATAT TCAACAACAGATAGAACCAGAGACGAGAAGATTGATAA T ₁₃
☆940	978	182	ATATAT TCAACAACAGATAGAACCAGAGACGAGAAG CTTGATAAT ₅
☆941	978	137	ATAT TCAACAACAGATAGAACCAGAGACGAGA TATTGATAATTTAAT ₁₄
☆933	986	2467	ATAAATAATCAACAGACGAATGAACTAGAGATAGAGAAATTAATA T ₁₂
☆934	988	11706	ATATAAATAATCAACAGACGAATGAACTAGAGATAGAGAAATTAAT T ₁₂
☆936	988	175	ATATAAATAATCAACAGACGAATGAACTAGAGATAGAGAAATTA T ₁₅
☆937	988	97	ATATAAATAATCAACAGACGAATGAACTAGAGATAGAGAAAT TAT ₁₃

mRNA 5'	mRNA 3'	copy #	ND7 major gRNA classes continued – page 3
952	1000	748	ATAAA GGTAATATCACAGTGTAGATAGTCGGATAGATAGATGAAATT T ₁₀
□959	1000	173548	ATAAA GGTAATATCACAGTGTAGATAGTCGGATAGATAGATGAAA AT ₁₄
960	1000	472	ATAAA GGTAATATCACAGTGTAGATAGTCGGATAGATAGATGAA T8GT ₄
961	1000	265	ATAAA GGTAATATCACAGTGTAGATAGTCGGATAGATAGATGA T ₁₂
□962	1000	234	ATAAA GGTAATATCACAGTGTAGATAGTCGGATAGATAGATG TAAAT ₃ AT ₉
963	1000	371	ATAAA GGTAATATCACAGTGTAGATAGTCGGATAGATAGAT TTTCT ₁₁
□964	1000	372	ATAAA GGTAATATCACAGTGTAGATAGTCGGATAGATAGA AAAAA ₆ AT ₇
□966	1000	412	ATAAA GGTAATATCACAGTGTAGATAGTCGGATAGATA TATGAAAAT ₁₃
☆983	1017	101	ATATATAAATAACATAT TAATGGTCTTGATGGTGATATTGTAGTATAA T ₁₂
☆1001	1032	3	ATATA TATAAATAACGTGATGATGGTCTCGAT AGTAATTGATAAT ₈
☆1015	1043	12	AT ACATCACAAACTATAAAGTAATATGATAA GGGTTTCGAT ₁₃ AA
☆1030	1067	2406	ATATATAACAAGC AATGATGTACTCGGTAAATAGTGACACTGTGAATTAT T ₁₂
☆1032	1067	6797	ATATATAACAAGC AATGATGTACTCGGTAAATAGTGACACTGTGAATT T ₁₁ C
☆1055	1085	40	CTCATTAGAAA GGTGTTCCGGTATAGGTAGATGATATATTT T ₃
☆1057	1085	44	ATTAGAAA GGTGTTCCGGTATAGGTAGATGATATAT AT ₁₀
☆1089	1121	1	AT ATATGATAACAACAATACTTACTTT GAGGTGTTTTGTGAGTAAAT ₁₄
☆1094	1142	289	ATATAAA AGAACATAAACTGACACGAGGGTATAGTGATGAATGATATTT T ₄ GT ₅
1094	1143	6615	ATATAA GAGAACATAAACTAGCATAGAGGCATAGTAACAAGTGATATTT T ₁₀
☆1099	1142	5793	ATATAAA AGAACATAAACTGACACGAGGGTATAGTGATGAATGATAT AT ₁₂ C
1099	1143	81287	ATATAA GAGAACATAAACTAGCATAGAGGCATAGTAACAAGTGATAT AT ₁₄
1101	1143	550	ATATAA GAGAACATAAACTAGCATAGAGGCATAGTAACAAGTGAT T ₈ GT ₄
1106	1143	318	ATATAA GAGAACATAAACTAGCATAGAGGCATAGTAACAA T ₁₁
1107	1143	177	ATATAA GAGAACATAAACTAGCATAGAGGCATAGTAACA T ₁₁ G
1108	1143	303	ATATAA GAGAACATAAACTAGCATAGAGGCATAGTAAC T ₁₁
□1099	1143	162	ATATAA GAGAACATAAACTAGCATAGAGGCATAGTAACAAATGATAT AT ₅
□1099	1143	259	ATATAA GAGAACATAAACTAGCATAGAGGCATAGTAACAAGCGATAT ACT ₁₂
□1105	1143	520	TATAA GAGAACATAAACTAGCATAGAGGCATAGTAACAAG GGATATAT ₆ CT ₆
□1099	1143	163	ATATAA GAGAACATAAACTAGCATAGAAGCATAGTAACAAGTGATAT AT ₅
□1099	1143	128	ATATAA GAGAACATAAACTAACATAGAGGCATAGTAACAAGTGATAT AT ₉ GT ₆
□1099	1143	98	ATATAA GAGAACATAAACTAGCATAGAGACATAGTAACAAGTGATAT AT ₉ CT ₄
□1099	1131	705	ATATAAGAGAACATAAA CAGCATAGAGGCATAGTAACAAGTGATAT AT ₁₂ GT
☆1108	1145	569	ATATAAACGTAT ACGAGCATAGATCAGTGTGAGAATGTAGTAAT T ₇ CT ₆
☆1094	1148	295	ATATAAAA TAAACGAGAATATAAAGTATGATGTAGAGATATAGTGATAAGTAATATTT T ₈
☆1107	1157	82	AT ATGTAATGTAACAGAGAATATAGATTGATGTAGAGATATAGTAATA T ₁₃
☆1150	1197	213	AT ATAAACATCCAATAGACGAGTATGTGAGAGATTTGTATGATGTAAT T ₁₀
1181	1218	4103	ATATATAA ATGCAATAGAAGATCACGCAATAGATATCTGATAAAT T ₁₂ C
☆1183	1224	1399	ATA TAAATCATGCAGTAAAAGACTATGTAGATGGATATTCAGTGA TAAT ₁₄
☆1183	1223	1017	AAATA AAATCATGCAGTAGAGAACCCTGTAAGTGAGTATCTGATAA TTAT ₁₁
☆1183	1224	138	ATA TAAATCATGCAGTGAAGAGCTACGTAAATGGATATTCAGTGA TAAT ₁₁
☆1210	1257	123	ATAT ACAACATCAATATTACTTAGAACGGTAACTAGATTGTGTAATAA T ₁₄
☆1240	1268	95	AAACTAACGATATT CGGATCTGAGAGTAACATTGATATTATTT T ₇
☆1242	1283	6	AC AAATAACGATTTACGGATTTAGAGACAGTGTAAATGTTAT AT ₁₃
☆1251	1282	63	ATATATAT AACTAACGATCTATGGGTTAAAGACAGTGT GAAT ₁₂
☆1269	1320	6	ATA TAAACAATCCTACAATGATCTCGTGTATAAGACTGATGATTTA AT ₁₂

Supplementary Table 8: ND8 major gRNA classes

mRNA 5'	mRNA 3'	Copy #	ND8 Major gRNA classes
☆29	68	1	AA AAAAAAAAAACATACAGAAATAGAAAAGATAAGAAAGTGATA TATTAT ₈
☆34	58	2	GTGGG ATATGAAAGTAAAGAGATAAAAAAAAA ATTAAT ₁₃
☆55	98	2577	ATAT AAAACAAACAAAAAGAAGAAACAAGAAATGAAGAGAGATATAT T ₁₁ AT
☆84	133	633	A AAATAGTAATACAACAGACAGAGCATATATAGAAATAAGTGAGAAA T ₈ AT ₇
☆84	131	380	AT ATAGTAATACAACAAACGAGATACGTATAGAAATAGATGAGAAA T ₁₃
87	136	6039	ATAAATAGTAACACAATGAGCAGAGTACGTATAAGAATGAGTAAA T ₁₄
□87	136	292	GTAAATAGTAACACAATGAGCAGAGTACGTATAAGAATGAGTAAA T ₁₀ GT
87	135	394	TAAATAGTAACACAATGAGCAGAGTACGTATAAGAATGAGTAAA T ₁₂
87	133	593	AAATAGTAACACAATGAGCAGAGTACGTATAAGAATGAGTAAA T ₇ CT ₇
□96	136	191	ATAAATAGTAACACAATAGACGAGATACGTGTAGAA TAAGTGATTTAAT ₁₁
☆111	153	70659	ATATATAAATGGTA AACTCAATGGGTGGATAAGTAGTAATGTGATGAAT T ₁₃
☆113	153	121	ATATATAAATGGTA AACTCAATGGGTGGATAAGTAGTAATGTGATGA T ₉ CT ₅
☆115	153	127	ATATATAAATGGTA AACTCAATGGGTGGATAAGTAGTAATGTGAT T ₇ AT ₆
☆111	153	245	ATATATAAATGGTA AACTCAATGGGTGGATAAGTAGTAATGTGATAAAT T ₇ CT ₄
☆111	153	147	ATATATAAATGGTA AACTCAATGGGTGGATAAGTAGTAATATGATGAAT TGTAATAT ₁₅
☆111	153	479	ATATATAAATGGTA AACTCAATGGGTGGATAAATAGTAATGTGATGAAT T ₃
☆117	170	4	ACAT ATAAACTAACAATGGTTGATTTAGTGAAGTGAATGAGTAGTAATATT T ₁₁
☆158	186	169806	ATAT GAACGCAAGAATGGATTACCACGAGTTAGTAAATTTGATGAT AT ₁₄
☆161	198	66	ATATAAT AAACGCAAAAATGGTTACTATGAACTGATAGATTAAT T ₈ GT ₅
☆161	187	124070	ATATAAT AAACGCAAAAATGGTTACTATGAACTGATAGATTAAT T ₁₁ C
☆161	187	799	AAACGCAAAAATGGTTACTATGAACTGATAGATTAAT T ₁₁
☆186	230	24763	ATA CAATACAACGCTCTGAATCATATCGATAAAAAGTGTGAGAAAAT T ₁₃
☆186	229	182	AATACAACGCTCTGAATCATATCGATAAAAAGTGTGAGAAAAT TTAAT ₇ AT ₄
☆186	230	109	ATA CAATACAACGCTCTGAATCATATCGATAAAAAGCTGAGAAAAT T ₁₁
☆186	220	204	ATA CAATACAACACTCTGAATCATATCGATAAAAAGTGTGAGAAAAT TTAAT ₁₀
☆194	230	160	ATA CAATACAACGCTCTGAATCATATCGATAAAAAGTG GGAGAAAAT ₁₀ G
☆195	230	149	ATA CAATACAACGCTCTGAATCATATCGATAAAAAGT TGAGAAAATTTAAT ₁₁
☆196	230	199	ATA CAATACAACGCTCTGAATCATATCGATAAAAAG AGTGAGAAAATTTAAT ₅
☆213	244	173	A ACATAAACGACAGGTAATATGATGTTCTGAAT GATATCGATAAT ₅ C
☆237	267	2	CATCCAATGTAT AATTAGGGTAGATTGAGTTATGTAAT T ₁₅
☆240	288	3	TATGAACATCCGATACTGAAGTGGTAGATTGAGTTATATA T ₁₀
☆275	319	109	ATATAT AAACGATGACTACTAGAATCTACTCAATGTGAATGTTT T ₅ GT ₆
☆276	319	28492	ATATAT AAACGATGACTACTAGAATCTACTCAATGTGAATGTT AAT ₁₄
☆276	314	215	GATGACTACTAGAATCTACTCAATGTGAATGTT AATTTATGATAT ₁₄
275	318	384	ATATAC AACGATGATCACTGAGATTTTACCTAATATGGATGTT T ₉
276	318	51820	ATATAC AACGATGATCACTGAGATTTTACCTAATATGGATGTT AAT ₁₃
□276	311	186	ATATACAAT ATGATCACTGAGATTTTACCTAATATGGATGTT AAT ₁₁
☆277	317	1829	ATATAT ACGATGACTACCAAAATCTATCTGATATGAATGT GATAATAT ₁₁
☆279	319	334	ATATAT AAACGATGACTACTAGAATCTACTCAATGTGAAT T ₆ CT ₈
279	318	594	ATATAC AACGATGATCACTGAGATTTTACCTAATATGGAT T ₈ AT ₈
☆284	321	140	ATATATA CAAAACGATGATTACCGAGATTTTATTTAATATGA TTGTCTAAT ₄
☆287	319	139	ATATAT AAACGATGACTACTAGAATCTACTCAATG AATGTTAAT ₄
☆301	344	636	ATAT ATAACCAATGTAGATCGATTTGTGAGATGATGATTGTCAA T ₁₁ ATC

mRNA 5'	mRNA3'	Copy #	ND8 Major gRNA classes continued
310	353	13915	ATATTA GATGATAACTCAGTGTAGATTGATCTGTAGAATGAT AATAT ₁₂
310	350	312	ATGATAACTCAGTGTAGATTGATCTGTAGAATGAT AATATATAATGT ₅
☆325	358	137	ATAA ATAACGACGATGATTCAGTGTAAATTGGT ATGTGAAATGATGT ₁₂
☆331	364	1709	ATAT ATAAATACAACGGTGATAATTCGATGTGA TGATATCTGTAAT ₁₄ AT
☆338	382	1964	ATATAA ATGCATACAAGAATCATAGTAAGTACAGTGTGATAAATTT T ₉
☆339	382	1073	ATATAA ATGCATACAAGAATCATAGTAAGTACAGTGTGATAAAT AT ₈ GT ₅
☆350	386	1269	ATATA AAACATGTATACAAAAATTACAGTAAATGCGACGA AAATAAT ₁₃
☆372	417	2*	ATAT ATAAATGCGTAATGGTATCTTTCGGGTAGATATGTGTATAAA T ₁₄
☆391	431	23*	AT ATATATAACAACAATGGGTGTATAATGGTATCTGAT TGTGCATTAATTTAAAAT ₁₄
☆405	434	9	AT AAAACACATAATAAATGATGAGTGCCTGAT ATAGGTATAAT ₁₂
☆411	443	923	A TAAACAACAAGAACACATAGCAGATAGTGGGTG ACGTATATGAT ₁₃
☆411	442	1950	AAAAA AAACAACAAGAACACATAGCAGATAGTGGGTG ACGTATAT ₁₁ C
☆423	466	2651	ATAAACTTGGG CGCTAATAGATATATGGTTAGATAATGAGAATATATAGT TAAT ₁₁
☆423	466	203	TAAAACTTGGG CGCTAATAGATATATGGTTAGATAATGAGAATATATAGT TAAT ₁₄
☆425	466	5218	ATAAACTTGGG CGCTAATAGATATATGGTTAGATAATGAGAATATATA T ₁₄
☆426	466	24242	ATAAACTTGGG CGCTAATAGATATATGGTTAGATAATGAGAATATAT T ₁₂ C
☆428	466	1071	ATAAACTTGGG CGCTAATAGATATATGGTTAGATAATGAGAATAT T ₁₀
☆426	482	13	AT AAACTTGGGCGCTAATAGATATATGGTTAGATAATGAGAATATAT T ₄ GT ₇
□477	512	176	ATATA TAAATAACATAAGACGATAACTGAATAATAGAAAT AAGTGTCAAT ₁₄
☆489	531	21576	ATAG ATAAAACACAAATAAAGGTCAAGTGATATAGAGTGATGATTAA T ₁₂ AT
☆489	528	5835	ATAAATAT AAACACAAATAAAGGTCAAGTAATGTAGAGTGATAATTAA T ₁₂
☆494	536	1242	ATATAT ACTACATAAAACACAGATAAGAATCAGATAGTGTGAGATAATA T ₉ GT ₅
☆495	536	151	ATATAT ACTACATAAAACACAGATAAGAATCAGATAGTGTGAGATAAT TTTTCT ₁₀
495	539	884	ATAT ATAACACACAAAATATAGGTAAAAGTTAGATGATGTGAAATGAT T ₁₁
☆500	540	2861	ATATAT AATAACTACACGAGACATGAATAGAAATTAAGTGTGTAAA T ₁₂
☆554	598	20	ATATA TAATTTACCGTGAATTTCTTTAGATTGTAGATATGATAA T ₁₃
☆554	598	7	ATATA TAATTTACCGTGGATTTCTTTAGATTATAGATATGATAA T ₆

Supplementary Table 9: ND9 major gRNA classes

mRNA 5'	mRNA 3'	Copy #	ND9 major gRNA Classes
☆33	71	18	ATAT AAACATAAACGAAATGAGCATAGAAGTATATGTATGATG ATATTAT ₁₄
☆60	105	540	A TATAACACAAACAATAGAATAAAGTTAAGTGAGAATATGAGTGA TTTAT ₁₁
☆87	124	1	ATATCAAC AAACAAATAGAGCACTGCTCTATGATATAAGTGATAA TTCT ₉
☆117	160	1145	ATAT ATAAAACAATAAAGAAATAGAAGGCTACAGTTAATGAGATAAAT T ₁₃
☆130	167	137	AAAATTAACAAAACAATAAAAAGAACGAGAAATTACAGT GAATGAAGTAAAT ₇
☆149	193	1196	ATAT AATAAAAACATACAATAAAAATAGAAGGAACTAATAAGATGATAG T ₁₅
☆176	216	3869	ATACAATAT AAAACAAAAGTCACAGATTAAGGGATAGAGATGTGTGATAA T ₁₄
☆177	216	357	ATACAATAT AAAACAAAAGTCACAGATTAAGGGATAGAGATGTGTGATA T ₁₁
201	242	87	ATATAA AATCAATAACAGATCATGATGATATAGAGATAGAAGTTATAA T ₇ GT ₇
☆239	288	23*	AT AAATATACAACAATATAGAACGATGAAAGTGAAGATTATAAGAGTTAATT T ₅ CT ₆
238	279	86	AAAATTAT ACAACATAAGACGACGAAGATAAAGGTCATAGAGATTAATTA T ₁₁
239	279	569	AAATTAT ACAACATAAGACGACGAAGATAAAGGTCATAGAGATTAATT T ₅ CT ₆
□239	268	561	AACATAAAT CGGTGAAGATAGAGACTATGAGAATTAATT T ₇
□240	268	346	ATAAAT CGGTGAAGATAGAGACTATGAGAATTAAT ATGT ₁₅
☆272	312	43	ATAA GAACACACAGAGACAAGCAGAGTAAAGTGTATAGTGACATA T ₆
☆297	339	270	ATAT ACAACAACACAAGATAGAGCACAAATGAATGCACAGGGATAA TAT ₁₁
☆298	343	1741	GTAACAACAACACAGAGCAGAATACAAGTGAGTATATGAGAATA T ₁₁ GT
☆298	343	2681	ATAACAACAACACAGAGCAGAATACAAGTGAGTATATGAGAATA T ₁₁
☆303	339	44686	ATAT ACAACAACACAAGATAGAGCACAAATGAATGCACAG TGATAAT ₁₃
☆304	339	139	ATAT ACAACAACACAAGATAGAGCACAAATGAATGCACA CTGATAAT ₁₃
☆319	366	36	AT ATTAANAACACAATCCGAAGGTACAAATAGACAGTATAAGATAAAAT T ₁₁
☆319	366	17	AT ATTAANAACACAATCCGAAGGTATAAATAGACAGTATAAGATAAAAT TAAT ₁₉
☆349	392	270	ATATAT AGACGCATAATAAAAAGCAACTGAGGCTAGAATATGATTTAA T ₇ GT ₁₁
☆349	392	232	TAT AAACGTATAACAAAAGCAGTTAAAGCTAGAATGTGATTTAA T ₈ AT ₅
☆352	392	10040	ATATT AAACGCATAACAGAAATGATTAGAAGTGAAGATATGATT AAT ₁₃ C
□382	421	1	AATCAAAATATTCGTGTTCTGATGATAGAGATGTATAAT T ₁₀
409	447	761	ATATAAA ATTACCAACAGAATAGAAGCTAGACAAGTTAAGATATTT T ₈
409	447	667	ATATAAA ATTACCAACAGAATAGAAGCTAGACAAGTTAAGATATTT T ₁₂
☆439	484	72	ATAT AAACCAATCAACGAGTAAATGATGTAGAGTATTATTGTCAAT T ₈ AT ₄
468	514	234	ATAT ATAACACTTCAACGGAGAGAGACCAATGAGAGATCAGTTAATA T ₇ GT ₅
☆502	549	746	ATATAAATAACAATAACAAGTGAATCAGATAATGGATGATGTTTCAAT T ₁₂ G
☆533	566	11	AACGTACATATG ATCTCTCTGCTAGTATATAAGATGATAATAT T ₁₁
☆534	566	15	AAACGTACATATG ATCTCTCTGCTAGTATATAAGATGATAATA AT ₁₄
☆535	578	13	ATATT AACGTACATACTGTCTTCTCTATGACATATAAGATGATAAT T ₁₃
☆568	604	76	ATATA TATGCAACAACAGAGATAATATTGTAGATGTATATGT GATATCGT ₁₀
☆582	612	66	TATT AATTGGTATGTGACAATAGAAGTGATATT T ₉
☆609	644	274	ATATATA AGAATTACAATGGT GTATTAAGTGAAGTAAATGTAATGAGAATT T ₁₂
☆615	659	1	ATATATAA AGGATTACAGTGGTATATTGAATAGAGTGTAAATG T ₁₂

Supplementary Table10: RSP12 major gRNA classes

mRNA 5'	mRNA 3'	copy #	RSP12 Major gRNA classes
35	76	2218	ATA AACAACCGTACAGAAGTTACATATGCAGAGAAGGTGAGAT TTAT ₁₂
☆43	78	12531	ATAT ACAACAACCATATGAAGATCATGTACGTAGAAGA TTGATATAT ₁₄
☆63	109	5122	AT ATAATATAAAAACAAATAAGACAGAGTGTAGATAGTAATTGTATGA TAT ₁₂
☆73	115	120	A TATATAATAACATAAAAACAAATAGAACGAGATGTAATGATA TCTAT ₇ AT ₅
☆74	106	1212	ATAT ATATAAAAACAAATAGAATAGAACGTAGATGAT TACTGTATAAT ₁₀ AT
☆92	121	90	AACTGGGCATCT CGGATTTGTATAGTGATATAAAGTGAATAA T ₄
☆96	121	233	AATCA CGGATTTATATAGTAACGTAAAATGA TATTAT ₁₂
☆96	131	2	ATATAGAATTA GGCAATCGCGGATTTATATAGTAACGTAAAATGA TAT ₁₀
☆119	158	3	ACT TACAATACACGTTGGTTATCGGAGTTAGGTGATTGTG ACTTAT ₁₀
□132	164	18	CATATAAA GGCATATAGTATACGTCGGTTACTGGGATTTGTAAT ₇
□139	170	44	ATATA ACGGCATATAGTATACGTCGGTTACTAGGATTTGTAAT ₄
☆158	207	67	ATAT ATAACGCAACATTCGAATGAGATTATGTAGATGAAATATGGTAT TAT ₅
☆164	195	146	ATAACGCAACA TCAGATGAGATTATATAAGTGAGATATG ATATAT ₁₁
169	208	4724	ATAAAT AACAACGCAATATCCGAGTAAGATTGTATAAGTGAGATAT AT ₁₂
□194	235	3025	ATATATAATGAC TAACTAAACTGATAAAGCAGTAGAAGAGATGATGTAATATTT T ₁₁
□196	235	222	TAATGAC TAACTAAACTGATAAAGCAGTAGAAGAGATGATGTAATAT AT ₁₄
□198	235	4950	ATATATAATGAC TAACTAAACTGATAAAGCAGTAGAAGAGATGATGTAAT T ₁₁
☆200	246	609	ATAT ATAATGACATAATTAGACTGATAAGATAACGAGAAAAGTGATGTA T ₁₂
☆203	246	341382	ATATAT ATAATGACGTAACGTAGCTAATGAGGCAATGAGAGAGATAAT AT ₁₄
☆204	246	430	ATATAT ATAATGACGTAACGTAGCTAATGAGGCAATGAGAGAGATAA AAT ₁₃
☆205	246	1091	ATATAT ATAATGACGTAACGTAGCTAATGAGGCAATGAGAGAGATA T ₁₃
☆206	246	922	ATATAT ATAATGACGTAACGTAGCTAATGAGGCAATGAGAGAGAT T ₁₃ G
☆203	246	544	ATATAT ATAATGACGTAACGTAGCTAATGAAGCAATGAGAGAGATAAT AT ₁₃
☆203	250	267	AT ATAAATAATGACATAACTAGGTTAGTAAAGTGACGAAGAAGATAAT ATTAT ₄
☆203	246	370	ATATAT ATAATGACGTAACGTAGCTAATGAGGCAATGAGAGGGATAAT AT ₁₂
☆203	246	1324	ATATAT ATAATGACGTAACGTAGCTAATGAGGCAATGAGAGAAATAAT AT ₉ AT ₅
☆205	246	177	ATATAT ATAATGACGTAACGTAGCTAATGAGGCAATGAGAGAAATA T ₉ GT ₅
☆207	246	370	ATATAT ATAATGACGTAACGTAGCTAATGAGGCAATGAGAGAGA AATAT ₁₃
☆208	246	484	ATATAT ATAATGACGTAACGTAGCTAATGAGGCAATGAGAGAG TTAATAT ₁₁
☆209	246	964	ATATAT ATAATGACGTAACGTAGCTAATGAGGCAATGAGAGA TAATAT ₁₂
☆210	246	282	ATATAT ATAATGACGTAACGTAGCTAATGAGGCAATGAGAG CGATAATAT ₁₂ CT
☆211	246	268	ATATAT ATAATGACGTAACGTAGCTAATGAGGCAATGAGA T ₁₂
☆212	246	176	ATATAT ATAATGACGTAACGTAGCTAATGAGGCAATGAG CGAGATAATAT ₁₀ CT ₃
☆203	246	312	ATATAT ATAATGACGTAACGTAGCTAATGAGGCAATGAGAGAGATAAT AT ₁₂
☆203	246	530	ATATAT ATAATGACGTAACGTAGCTAATGAGACAATGAGAGAGATAAT AT ₁₁ G
☆203	246	196	ATATAT ATAATGACGTAACGTAGCTAATGAGGCAATGAGAGAGATAAT AT ₈ AT ₄
☆203	246	141	ATATAT ATAATGACGTAACGTAGCTAATGAGGCGATGAGAGAGATAAT AT ₉ GT ₉
☆203	246	117	ATATAT ATAATGACGTAACGTAGCCAATGAGGCAATGAGAGAGATAAT AT ₉ AT ₆
☆203	246	157	ATATAT ATAATGACGTAACGTAGCTAATGGGGCAATGAGAGAGATAAT AT ₁₀ C
☆203	246	193	ATATAT ATAATGACGTAACGTAGCTAATGAGGCAACGAGAGAGATAAT AT ₉ AT ₁₁
☆203	246	130	ATATAT ATAATGACGTAACGTAAGCTAATGAGGCAATGAGAGAGATAAT AT ₁₃
☆203	246	173	ATATAT ATAATGACGTAACGTAGCTAATAAGGCAATGAGAGAGATAAT AT ₁₄
☆203	246	119	ATATAT ATAATGACGTAACGTAGCTAATGAGGTAATGAGAGAGATAAT AT ₁₂
☆203	246	116	ATATAT ATAATGACGTAACGTGGCTAATGAGGCAATGAGAGAGATAAT AT ₁₃

mRNA 5'	mRNA 3'	copy #	RSP12 Major gRNA classes continued
☆234	264	35	TAG TGCCTTCTATAGTAGATGATGATATA TGAT ₁₂
□234	280	24	ATATA AGATCAACAAAAGTCCATTTTCTGTAGTAAGTGTGATGATATA T ₉ AT ₄
□248	281	14	ATA TAAATCAACAGAACTGCCATCTTTTGTAGTA TAGTGATATAAT ₁₂
□267	322	10	ATA TACAATACGTGTATGATATTTTATACTGGGTAGATCAGTGAAATT T ₇
□267	322	16349	ATA TACAATACGTGTATGATATTTTATACTAGGTAGATCAGTGAAATT T ₁₂
309	349	128	AAATAT AACATATCTTATATCTGAATCTAACTGTAATATGTG AAT ₁₅

