

NM_153730.2 Rattus norvegicus kelch-like family member 12 (Klhl12), mRNA		CDS: 8..1714																
[siDirect v.2.0 2020-06-11 04:47:13]																		
blue=coding																		
yellow=noncoding																		
bolded are the ones we ordered.																		
target position	target sequence	RNA oligo, guide	passenger	functional siRNA selection	seed-duplex st	passenger	min. number of mismatches against off-target	passenger	number of o	1(+)	2(+)	3(+)	0(-)	1(-)	2(-)	3(-)	target position	
13-35	CGGCATTATGGCCCCTAAAGACA	UCUUUAGGGGGCCAUAAUGCCG	GCAUUUAGGGCCCCUAAAGACA	URA	15.8	5.6	3	3	1	0	0	5	0	0	0	2	1	
23-45	GCCCCTAAAGACATAATGACAAA	UGUCAUU AUGUCUUUAGGGGC	CCCUAAAGACAUAAUGACAAA	UA	16.1	15.8	3	3	1	0	0	2	0	0	0	12	1	
24-46	CCCCTAAAGACATAATGACAAAT	UUGUCAUU AUGUCUUUAGGGG	CCUAAAGACAUAAUGACAAAU	UA	20.5	11.7	3	2	1	0	0	6	0	0	2	10	1	
25-47	CCCTAAAGACATAATGACAAATA	UUUGUCAUU AUGUCUUUAGGG	CUAAAGACAUAAUGACAAUA	URA	20.5	14.6	3	2	1	0	0	6	0	0	3	16	1	
27-49	CTAAAGACATAATGACAAATACT	UAUUUGUCAUU AUGUCUUUAG	AAAGACAUAAUGACAAUACU	R	14.8	19.2	3	2	1	0	0	14	0	0	1	13	1	
218-240	AAGCCATATGTTGACATTCAAGG	UUGAAUGUCAACAU AUGGCUU	GCCAU AUGUUGACAUUCAAGG	URA	20.5	18.8	3	3	1	0	0	8	0	0	0	6	1	
225-247	ATGTTGACATTCAAGGTTTAACT	UUAACCUUGAAUGUCAACAU	GUUGACAUUCAAGGUUUAAACU	UA	18.6	20.5	2	2	1	0	1	9	0	0	1	7	1	
236-258	CAAGGTTTAACTGCTTCTACAAT	UGUAGAAGCAGUUAACCUUG	AGGUUUAACUGCUUCUACAAU	R	18.9	14	3	2	1	0	0	6	0	0	1	12	1	
237-259	AAGGTTTAACTGCTTCTACAATG	UUGUAGAAGCAGUUAACCUU	GGUUUAACUGCUUCUACAAUG	URA	20.3	8.2	3	2	1	0	0	14	0	0	1	14	1	
238-260	AGGTTTAACTGCTTCTACAATGG	AUUGUAGAAGCAGUUAACCU	GUUUAACUGCUUCUACA AUGG	UA	20.3	4.9	2	2	1	0	1	8	0	0	2	16	1	
275-297	TTCGTGTATACAGAAACAGTACA	UACUGUUUCUGUAUACACGAA	CGUGUAUACAGAAACAGUACA	UA	17.8	15.8	3	3	1	0	0	2	0	0	0	6	1	
347-369	CAGTTGAAAGGTGTAAACAAGC	UUGUUUUACACCUUUCAACUG	GUUGAAAGGUGUAAAACAAGC	URA	7.2	12.2	3	2	1	0	0	15	0	0	1	11	1	
421-443	CAGGGATTTTGCTGAAACTCACA	UGAGUUUCAGCAAAAUCCUG	GGGAUUUUGCUGAAACUCACA	UA	21.5	14.2	3	3	1	0	0	5	0	0	0	8	1	
430-452	TGCTGAAACTCACAATTGCGTTG	ACGCAAUUGUGAGUUUCAGCA	CUGAAACUCACAAUUGCGUUG	UA	20.6	19.2	3	3	1	0	0	5	0	0	0	3	1	
565-587	TGAGATT CAGGTGGATTCTGAAG	UCAGAAUCCACCUGAAUCUCA	AGAUUCAGGUGGAUUCUGAAG	R	20.4	20.4	2	2	1	0	1	16	0	0	2	4	1	
695-717	AGGTACATTACAGATGTGATTGA	AAUCACAUCUGUAAUGUACCU	GUACAUUACAGAUGUGAUUGA	UA	20.5	8.5	3	3	1	0	0	6	0	0	0	8	1	
697-719	GTACATTACAGATGTGATTGATG	UCAAUCACAUCUGUAAUGUAC	ACAUUACAGAUGUGAUUGAUG	R	20.5	13.5	3	2	1	0	0	11	0	0	2	13	1	
724-746	GCCTTTTATCCGCTGTAGTTTAC	AAACUACAGCGGAUAAAAGGC	CUUUUAUCCGCGUAGUUUAC	UA	19	2.1	3	3	1	0	0	12	0	0	0	4	1	
933-955	GGAGCTTTTGGCCAAGTATCACT	UGAUACUUGGCAAAAAGCUCC	AGCUUUUUGCCAAGUAUCACU	R	14.5	12.3	2	3	1	0	2	10	0	0	0	5	1	
1137-1159	TGGGAGATATGATTTACGTTTCT	AAACGUAAAUCAU AUCUCCCA	GGAGAU AUGAUUUACGUUUUCU	UA	15	15.9	3	3	1	0	0	6	0	0	0	1	1	
1138-1160	GGGAGATATGATTTACGTTTCTG	GAAACGUAAAUCAU AUCUCCC	GAGAU AUGAUUUACGUUUUCUG	A	15	13.3	3	3	1	0	0	10	0	0	0	2	1	
1302-1324	GAGGATATGATGGCTTGAATATA	UAUUCAAGCCAUCAU AUCCUC	GGAU AUGAUGGCUUGAAUAUA	URA	12	17.4	3	3	1	0	0	10	0	0	0	7	1	
1303-1325	AGGATATGATGGCTTGAATATAT	AUAUUCAAGCCAUCAU AUCCU	GAU AUGAUGGCUUGAAUAUAU	UA	8.9	8.5	3	2	1	0	0	1	0	0	1	7	1	
1304-1326	GGATATGATGGCTTGAATATATT	UAUAUUCAAGCCAUCAU AUCC	AUAUGAUGGCUUGAAUAUAUU	R	8.7	14.9	2	3	1	0	1	3	0	0	0	11	1	
1312-1334	TGGCTTGAATATATTAAATTCAG	GAAUUUAAUAUAUUAAGCCA	GCUUGAAUAUAUUAUUUCAG	A	-9.7	12	3	3	1	0	0	5	0	0	0	8	1	
1313-1335	GGCTTGAATATATTAAATTCAGT	UGAAUUUAAUAUAUUAAGCC	CUUGAAUAUAUUAUUUCAGU	UA	2.1	8.9	2	3	1	0	1	6	0	0	0	11	1	
1413-1435	CCCTACTGAATGACCATATTTAT	AAAU AUGGUCAUUCAGUAGGG	CUACUGAAUGACCAUAUUUAU	URA	12.6	20.3	3	3	1	0	0	4	0	0	0	7	1	
1414-1436	CCTACTGAATGACCATATTTATG	UAAAU AUGGUCAUUCAGUAGG	UACUGAAUGACCAUAUUUAUG	R	-1.8	19.2	3	3	1	0	0	5	0	0	0	9	1	
1415-1437	CTACTGAATGACCATATTTATGT	AUAAAU AUGGUCAUUCAGUAG	ACUGAAUGACCAUAUUUAUGU	A	-8	18.1	3	3	1	0	0	2	0	0	0	9	1	
1468-1490	TTCTTCTGTTGAAGCTTATAACA	UUUAAGCUUCAACAGAGAA	CUUCUGUUGAAGCUUAUAACA	URA	14.9	19.2	2	3	1	0	1	10	0	0	0	3	1	
1471-1493	TTCTGTTGAAGCTTATAACATTC	AUGUUUAAGCUUCAACAGAA	CUGUUGAAGCUUAUAACAUUC	UA	8.5	20.5	2	2	1	0	1	15	0	0	2	7	1	
1619-1641	GAGTGTTATGACCTATCATCGA	GAUGAUAGGGUCAUAACACUC	GUGUUAUGACCCUAUCAUCGA	A	13.3	13.5	3	4	1	0	0	6	0	0	0	0	1	
1700-1722	CTCCGAGAAAAGTAACTGTTATT	UAACAGUUACUUUUCUCGGAG	CCGAGAAAAGUAACUGUUUAUU	URA	17.8	21	3	3	1	0	0	13	0	0	0	6	1	
1701-1723	TCCGAGAAAAGTAACTGTTATTT	AUAACAGUUACUUUUCUCGGA	CGAGAAAAGUAACUGUUUAUUU	URA	19	14.8	3	3	1	0	0	8	0	0	0	16	1	
1702-1724	CCGAGAAAAGTAACTGTTATTTG	AAUAACAGUUACUUUUCUCGG	GAGAAAAGUAACUGUUUAUUUG	UA	11.6	10.3	3	3	1	0	0	5	0	0	0	26	1	
1703-1725	CGAGAAAAGTAACTGTTATTTGG	AAAUACAGUUACUUUUCUCG	AGAAAAGUAACUGUUUAUUUGG	A	6.9	13.3	2	2	1	0	1	20	0	0	2	12	1	
1737-1759	GAACAGTTTGTGGGAGAATGAAG	UCAUUCUCCCAAAACUGUUC	ACAGUUUGUGGGAGAAUGAAG	R	20.4	16.7	3	2	1	0	0	19	0	0	1	14	1	
1738-1760	AACAGTTTGTGGGAGAATGAAGG	UUCAUUCUCCCAAAACUGUU	CAGUUUGUGGGAGAAUGAAGG	UA	20.4	17.8	3	2	1	0	0	9	0	0	1	27	1	