

pA site (strand)	Sequence 50nt upstream of mapped pA site, PAS	PAS
2972 (+)	UGUGGUAUGUAUUGUACUAAAAGAUACCGACC AAUACA AGACAACUAAUUAU	AAUACA
7032 (+)	UGGGCCUUGGAGUUAAGCUGUCACU AAUAAA CGACGUUGAAAUUUUUUUU	AAUAAA
17073 (+)	UCCCACCCACACAUUUUGUCUUUUAUUGCUUUUCA AAUAAA ACGGUGUUCUGU	AAUAAA
25116 (+)	GUCAAAAAACUUUAAAAACAUCGUUAUACCAAUUAC AAUAAA AACCACACC	AAUAAA
25192 (+)	GUGUUAGUGACCCACUGUACACAAGCCGUGUCGUUAUUGUUAUAGG	N/D
25441 (+)	CGGCUAUUCUGUCCCAUGAGCUCUUG AAUAAA CAAUUGUUUACCGAG	AAUAAA
28925 (+)	CGCGGUCUGGAGCUCUCCAUAAGCCCGCAGAACAAAAGCUGCGAUUUGCC	N/D
29277 (+)	GUGUAUCUUUUGGUGCGUUGUGAAGCAUUUUAAAAUUGCUUUUJAGAUUG	N/D
29740 (+)	UACCAUAACGUAAUGCAACUUACAACUA AAUAAA GGUCAUUGUUUAUUC	AAUAAA
30749 (+)	UAGAGGGUUGCAUGUUUAUACAACAA CAUAAA CAUAAAUGAACAUUGUU	CAUAAA
33455 (+)	UGCUGGUUCAGGAUUUCGAUAUUCU AAUAAA CCUACUGCCUGUCAGAUU	AAUAAA
39329 (+)	UACAGACUGUUUCCAUCUUUUUAGACGGUC AAUAAA AGCUGAGAUUUU	AAUAAA
48779 (+)	UUCUAAAUUUUA AAUAAA GGUGUGUCACUGGUUACACCAGAUUAAAAAC	AAUAAA
54095 (+)	GUCUGUAAAACACUGUUUGGAGUUUCA AAUAAA CGAAGUACUGCUUAAA	AAUAAA
58875 (+)	AUAUCCCGCAUUAAAAAGAAGAAAA AAUAAA GAAACAUUUUUUUAAAG	AAUAAA
62559 (+)	UUCUCCAGGUGCUUGGUAAGAUGGUUACAC AAUAAA AAAUGUUUACUGG	AAUAAA
67318 (+)	CUCUUUAGACACUGAUGUGUUUGG AAUAAA GCAUGAGUCACUAGACACC	AAUAAA
76738 (+)	UAGUGUAACACAAAACCAUAAAAGUA AAUAAA CGUUUUUUGUUCACAU	AAUAAA
78708 (+)	AUUCGAUCCCGCAACCCACAGCAUCCCCCA AAUAAA AAAACGAGUGUACA	AAUAAA
78777 (+)	UGUUCGAUUCAUUACUGGUACAGAG AAUAAA GCCAACCUAUGUCGAACC	AAUAAA
83636 (+)	GUAACUCACGUAGCCUUUCUCU AAUAAA CAAGCUACCUGCAAACUUAACA	AAUAAA
111911 (+)	CGUCCUUGGCGGAGACGGUUUGACAG AAUAAA GAAGUGGUACUUUGACUC	AAUAAA
117421 (+)	GCUCUUAUGCAACUGACCAUGUUCAGGUGGU AAUAAA GCAUUAUAAACGA	AAUAAA
130545 (+)	CUAUGUAUUUGUUUUUAUUGCG AAUAAA UGAGGGGUCUGAUCCCAAAAG	AAUAAA
10572 (-)	GCUCGAUGGCCUUGAAGUCUAUGUUUUG AAUAAA GGAUAGAUUCAGGGCG	AAUAAA
17181 (-)	CACUAAUUAUCUUUGCGUGUCUAGAC AAUAAA GAUUAACUGUCUACAGUC	AAUAAA
17227 (-)	ACGUCCACGAUAAAGUAAAGAGCGACGUGA CAUAAA AUUUCUUUAACACU	CAUAAA
18593 (-)	CGUUCGGCUGUUUCGUCUGCCCUUAGUUU AAUAAA AGUUAUUAAGAGC	AAUAAA
21326 (-)	ACUCUACUGCAAAAUUGUCUUGU AAUAAA UGUAUUAAGACAC	AAUAAA
25547 (-)	GGCCUGUGCCCAAUCUGUCCUC AAUAAA AACAAGUAGCUGUUGACUUUC	AAUAAA
26892 (-)	GGGAUCCACUCAGGUGUUUUC AAUAAA GCUGUUGUGUUUUUCUCUCAU	AAUAAA
29376 (-)	GCUCCACGUCGCCGCACACCACUUUAGUCCAUGUUUCUACACGACUUUG	N/D
29447 (-)	AGCAAACAACAAUUAUAGCCUGGAACUCCAACACAACAUACACAUUA	N/D
29516 (-)	CCCAGCCAAAACCCGUAUUCUUAUGUACACAACGCUUUUCACUACAAGA	N/D
29558 (-)	GCCGUCUGGUCACUGGAGGUGUCCGGUCCGAACAAGGAAAAACCCAGCCA	N/D
29615 (-)	CGUUAAAUUGUCAAAAAGUAUAACAUGUUUUC AAUUAU CACUGGGAUAA	AAUUAU
30741 (-)	CUACCCUACUCCCGUUUUGAAAA AAUAAA CAUACGUUUUGAACAAUG	AAUAAA
32518 (-)	UGUACAUCCUGCAGAGAACCAAUG AAUAAA ACGCAGCUCUUGGGCGUGG	AAUAAA
36119 (-)	CCAUAACCCUCUAAGUAAAGCA AAUAAA CAUUCUGUAGUCCACGGUC	AAUAAA
39229 (-)	AAAGAAAGUAGUAACCCCGAGAACCC AAUAAA AGAGAGAAUUAAGAAAC	AAUAAA
49344 (-)	AGACACAUGUACAAGCCAUUACCCAC AAUAAA AGCACAGCGCUCAAUU	AAUAAA
55654 (-)	CCUCCUGUUGAUGUUUGCCUCCAGAGCCGACUU AAUAAA CUCUCUUUAG	AAUAAA
58884 (-)	AUCCCGUUUAUUUUUACCCACCACGG AAUAAA AUACGUACAGAAAACC	AAUAAA
62410 (-)	CAUUGUUUCCCUUUUUUCA AAUAAA GAUAAAAGCCUGGUCCAGGCCUCU	AAUAAA
67323 (-)	AACUGGCCUGGCGGACUGAU AAUAAA AGAAUGGUGUCAAUACAGACC	AAUAAA
71615 (-)	CACCAUUGUAAACACGCAUUGUUCAGUAUAC AAUAAA AAGGUCGAUCUUU	AAUAAA
73485 (-)	CCUGCCACGUACU AAUAAA CGCCGGUCUGUACCCGAUGGGUUAAAGGGG	AAUAAA
74635 (-)	GUUAAA AAUAAA CUGCCUGGGAAGUUAACGCAGGCACAGACGCCCUUGCG	AAUAAA
76706 (-)	AAGAGUACCACUCUUUAUCAUGUGAAC AAUAAA CACGUUUUUUACUUUU	AAUAAA
78704 (-)	UUCUCUGUACCAGUAAUGAAUCGAACA AAUAAA ACAUUGGCGUGUGU	AAUAAA
83787 (-)	UAUUGUUUAGGGAGGGAGUAUAUCAUAC AAUAAA GAGACCAAAAUAUUG	AAUAAA
83844 (-)	UAAUGCCGAAGCCGUUAUGGGGAUGCCA AAUAAA UAAUACA AAAUUGCC	AAUAAA
86005 (-)	AAACCGGAUGUAAUCUUGUAGUCCA AAUAAA CCAGACACGACAUUUCGCC	AAUAAA
89372 (-)	ACCUGUGAUUAUGUUAACCCGGAUCGAUA AAUAAA AUAGAAAGCAUUUG	AAUAAA
89516 (-)	GCUGUGGUUAAAGUGAAAGUGUGAGGAU AAUAAA CACUACAUUUCACCC	AAUAAA
91750 (-)	CACUGAGUGGACAU AAUAAA GGUUAAGCGCCACCUGUGGCCUGCAAAAU	AAUAAA
91873 (-)	CCUUUGUCUUACCGCCUCCGUUUUGCACU AAUAAA UAUCAUUGCCGUUAG	AAUAAA
94467 (-)	UAUGUAUCUACUAGCUCUCCUGUCGGU AAUAAA UAAAGUUGUUGCUAAUUG	AAUAAA
98274 (-)	UUGCUAAUUAUCUCCAAGGUCACC AAUAAA GAAGAGGUGUUGAGGCC	AAUAAA
111807 (-)	AUAGGGCGGCCACUUUUUGUUUGAUGCGUCU AAUAAA ACUAAUCAGUGUU	AAUAAA
117430 (-)	GUACAUUGCAGCGUGGCCACAUGUUCAAAAC AAUAAA CAGAUUAAAAG	AAUAAA
117868 (-)	AGCUAGCGUGCCUCCCAAAGAGUGUCAGUA AAUAAA AUACA AAAACAC	AAUAAA
118012 (-)	CCGGAUGUUU ACUAAA UGGGUGGCGCUGGAGGCUUGGGCGAUUACACC	ACUAAA
118032 (-)	UGUUUGUGGAGUUCUAGUCCCGGAUGUGU ACUAAA UGGGUGGCGCUGG	ACUAAA
118087 (-)	UGGUGCCUCCUCCUCCUCCACUCCA AAUAAA UCCAAUGCAUGGAUAGAGGCUU	N/D
122069 (-)	UCCGUAGAAUGUAUGUACUGAUUU AAUAAA CACUACAAGUUUUGUAAG	AAUAAA
130492 (-)	UUUGGAUCAGACCCUCAUUUAUCGCAU AAUAAA ACAAUACAUAUGUC	AAUAAA

Table S9