

Figure S1

Canonical stop codon



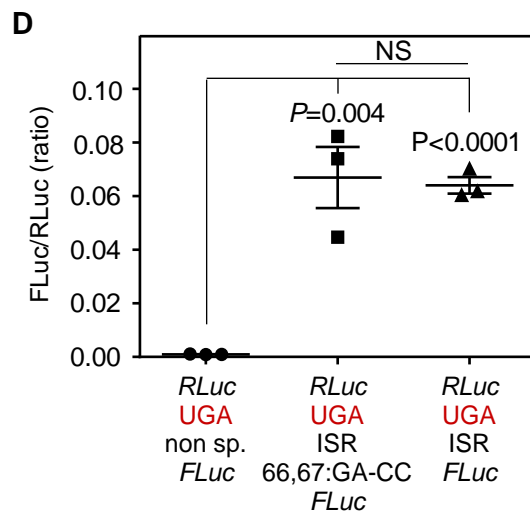
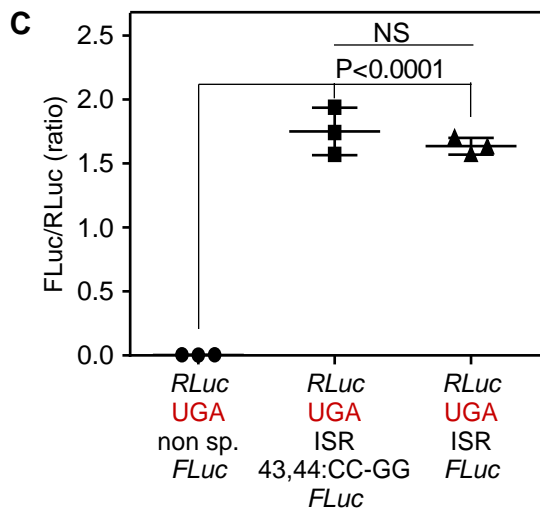
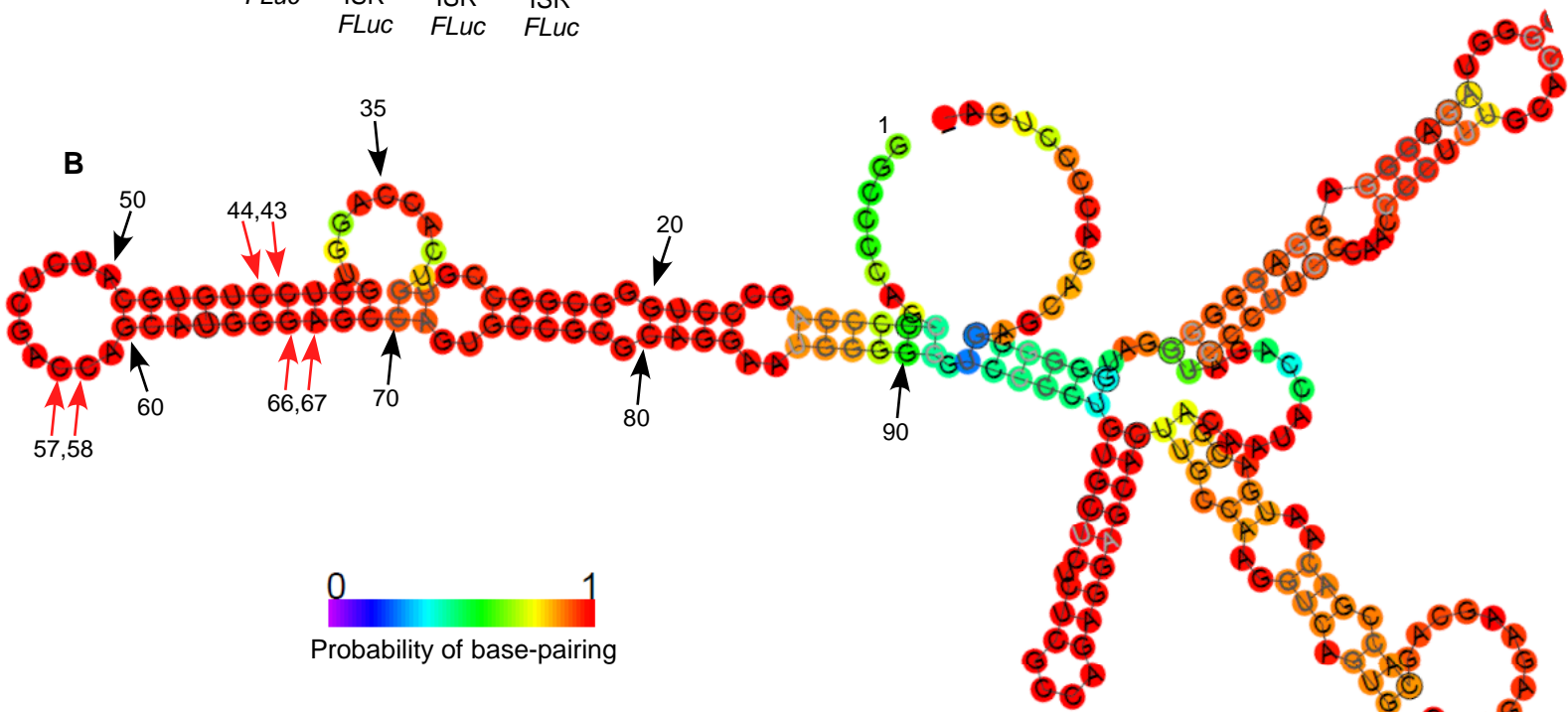
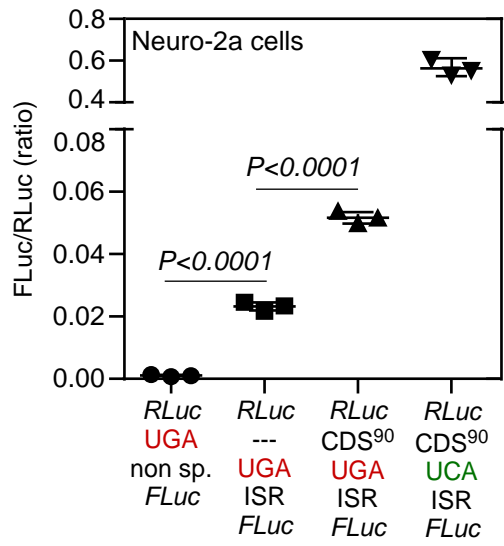
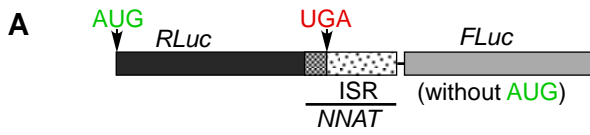
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Mm : UGAGGCCCCAGCUCCCAGCCCUGGGCGGCCGUAUCAUCAGGUGCUCUUGCAUCUCAGCCAGCACGGGAGCCAGUG  
Ec : UGAGGCCCCAGCCCCAGCCCUGGGCGGCCGUGUACACAGGUGCUCUUGCAUCUCGACCAGCAUGGGAGCCAGUG  
Bt : UGAGGCCCCAGCCCCUCCCCUGGGCGGCCGUGUACACAGGUGCUCUUGGCAUUCACCAGCAUGGGAGCCAGCG  
Ss : UGAGGCUCACAGCCCCAACCCUGGGCGGCCGUGUACACAGGUGCUCUUGGCAAUUCACCAGCAUGGGAGCCAGUG  
Md : UGAGGCCCCAGCCCCAGCCCUGGGCGGCCAUGUACACAGGUGCUCUUGCAUCUCGCCAGCAUGGGAGCCAUUG  
Fc : UGAGGCCCCAACCCCCAGCCCUGGGCGGCCGCGUACACAGGUGCUCUUGGCUUCUCGGCCAGCAUGGGAGCCAGUG  
Mp : UGAGGUCCCAGCCCCAGCCCUGGGCGGCCUUGUACACAGGUGCUCUUGGCUUCUUGGCCAGCAUGGGAGCCAGUG  
Ms : UGAGGCCCCAGCUCCCAGCCCUGGGCGGCCGUGUCAUCAGGUGCUCUUGGCUUCUCGACCAGCAUGGGAGCCAGUG

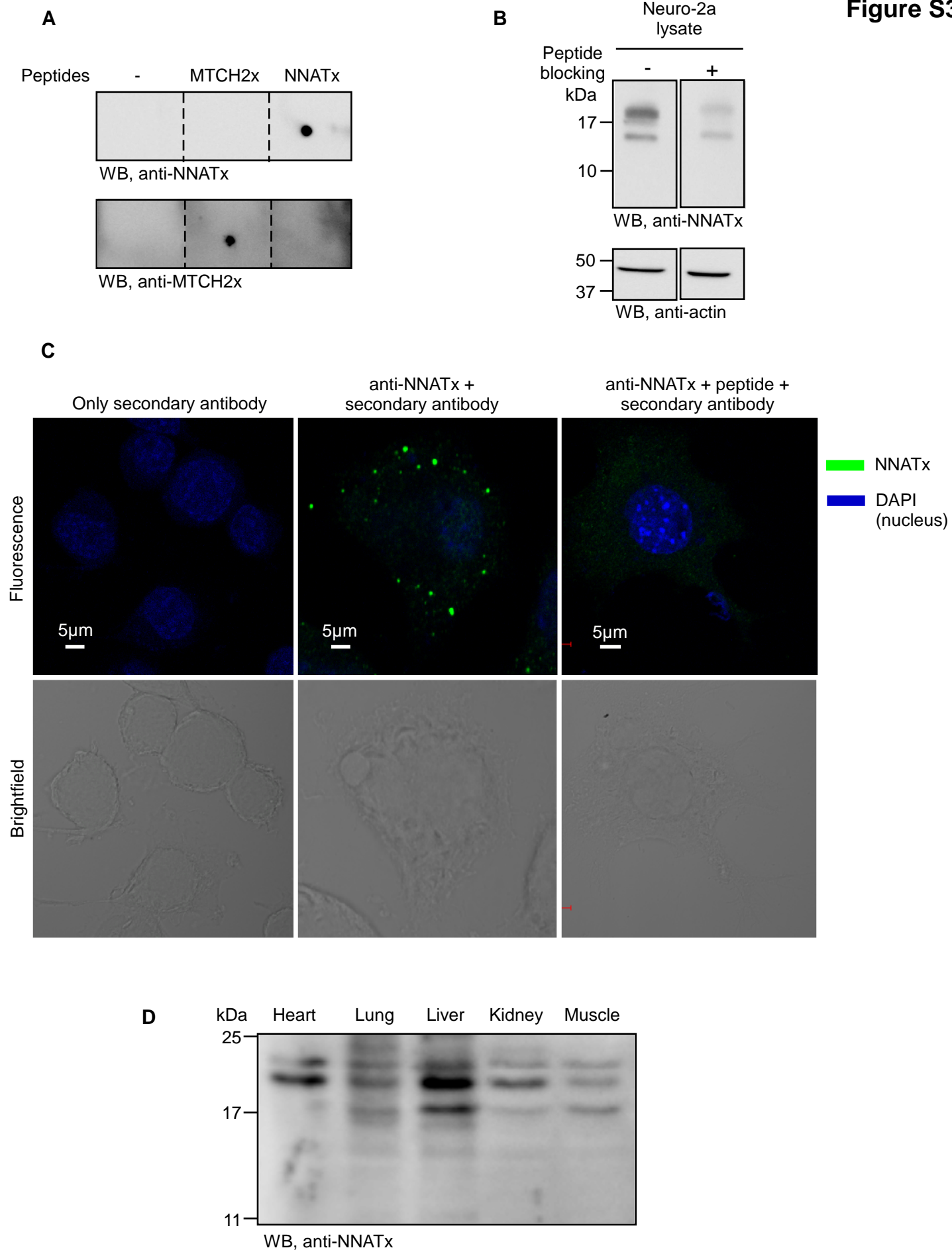
Hs : CCGCGCAGGAAUGUGGGGUCCCCUGUGUUCUCCUCGCCAGAGGAGCACUUGGCAAGGUCAGUGAGGGGCCAGUAGACC  
Mm : CCGCACAGGAAUGGGGGGUCCCCUGUGUCUCCUCGCCAGAGGAGCACUUGGCAAGGUCAGUGAGGGGCCAGUAGACC  
Ec : CCGCGCAGGAAACGGGGGUCCCCUGUGUCUCCUCGCCAUAGGAGCACUUGCCAAGGUCAGUGAGGGGCCGGUAGGCC  
Bt : CCGCGCAGGAAUGGGGCGUCCCCUGUGCCUCUCGCCAGAGGAGCACUUGCCAAGGUCAGUGAGGGGCGUGUAGGCC  
Ss : CCGCACAGGAAACGGGGCGUCCCCUGUGCCUCUCGCCAGAGGAGCACUUGCCAAGGUCAGUGAGGGGCCUGUAGGCC  
Md : CCGCCCAGGAAUAGGGGGUCCCCUGUGUCUCUCGCCAGAGGAGCAUUGCCAAGGUCAAUGAGGGGCCUGGCAGGCC  
Fc : CCGCGCAGGAAUGGGGGGUCCCCUGUGUCUCUCGCCAGAGGAGCAUUGCCAAGGUCAGUGAGGGGCCGGUAGGCC  
Mp : CCGCGCAGGAAUGGGGGGUCCCCUGUGUCUCUCGCCAGAGGAGCAUUGCCAAGGUCAGUGAGGGGCCUGUAGGCU  
Ms : CCGCGCAGGAAUGGGGGGUCCCCUGUGUUCUCCUCGUCAGAGGAGCACUUGCCAAGGUCAGUGAGGGGCCGGUAGGCC

Hs : CCCGGAGAAGCAGUACCGACAAUGACGAAAGAUACCAGAUCCCUUCCCAACCCCUUUGCACCAGGUCUCCACUAAGGGGC  
Mm : CCUGGAGAAGCAGUACCGACAAUGACGAAAGAUACCAGAUCCCUUCCCAACCCCUUUGCACCAGUCCACCAAGGGGC  
Ec : CCCGGAGAAGCAGCACCGACAAUGAUGACAAUACCAGAAACUUUCCAAACCCCUUGCACCAGUCCACUAGCCAGGC  
Bt : CCUGGAGAAGCAGCACCGACAAUGACGACAAACAAGAGAUCCCUUCCCAACCCCUUGCACCACUCCACUGCGGGUG  
Ss : CCCAGAGAAGCAGCACCGACAAUGACGACAAUACCAGAUUCCCUUCCCAACCCCUUUGCACCACUCCUGCUGCCGGUG  
Md : UCCAGAGAAGCAGCACCGCAAUGACGACAAUACCAGAUCCCUUCCAAUCCCUUGUGUACCCCUCCAUUAUGGGGCG  
Fc : CCCGGAGAAGCAGCACCGACAAUGACGACAAUACCAGAUCCCUUCCAAACCCCUUUGCGCCCCUCUGACCACUUGGGU  
Mp : CCUGGAGAAGCAGCACCGACAAUGACGACAAUACCAGAUCCCUUCCAAAGCCCUUUGCACCACUCCUGACCACUUGGGU  
Ms : CCCAGAAAAGCAGCACCGACAAUGAUGAAGAUACAGUCCCUUCCCAAGCCCUUUGCCCCUGUCCACUACCGGCG

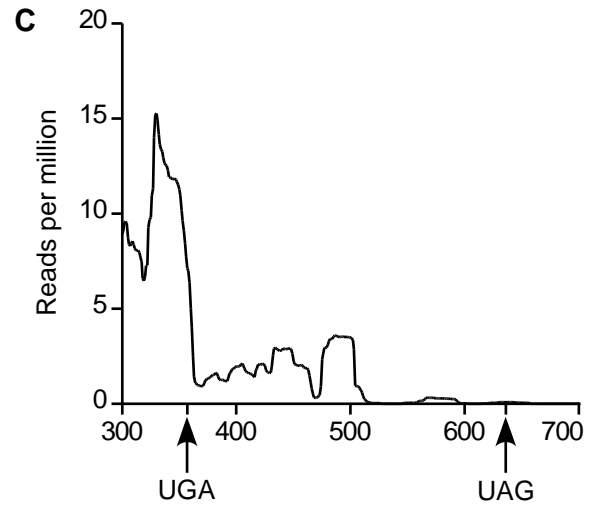
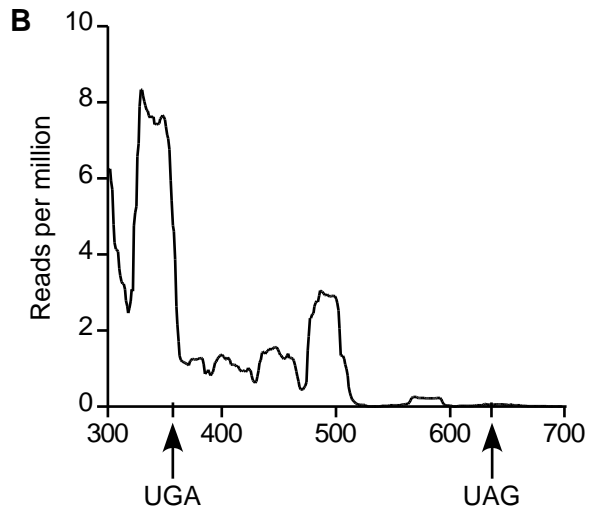
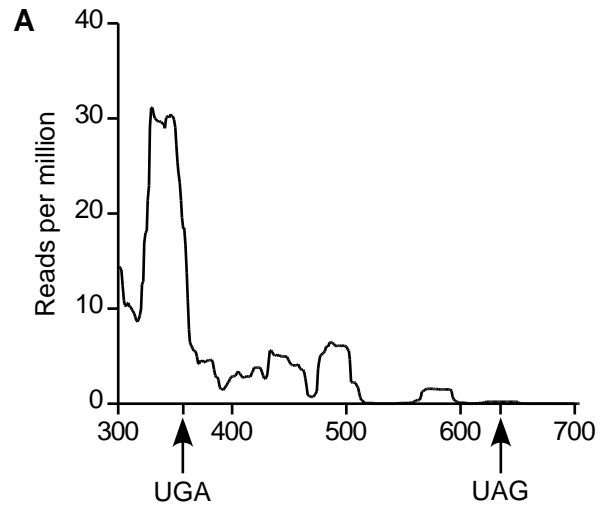
Hs : AGGGUCGAGAGAGGAGGGGGGAUAGGGGGAGCAGACCCCUAGAGAUCUGGGC  
Mm : AGGGUCGGGAGAGGAGGGGGGAUAGGGGGAGCAGACCCCUAGAGAUUUGGGC  
Ec : GGGGUAGAGGGAGGAGGGGGUUGGGGGAGCAGACCCCUAGAGAUCUGGGC  
Bt : GCCUAGAGGGAGGAACGGGGCUAGGGGGAGCAGACUCCUAGAGAUCUGGGC  
Ss : GCAUAGAGGGAGGAGGGGGAAUGGAGGGAGCAGACCCCUAGAGAUCUGGGC  
Md : GGGUAGAGGGAGGAGGGGAUUGGAGGGAGAAUUCUGAGAUUUGGGCAUAGGCA  
Fc : GGGGUAGAGGGAGGAGGGGGUUGGGGGAGCAGACCCCGAGAUUCUGGGCA  
Mp : GGGGUAGAGGGAGGAGGGGGUUGGGGGAGCAGUACCCCAAGAUUCUGGG  
Ms : GGUGGGAGAGGAGGGGGAAAGAGGGGAGCAACCCUCGAGAUUUGGGCGUAG

Figure S2

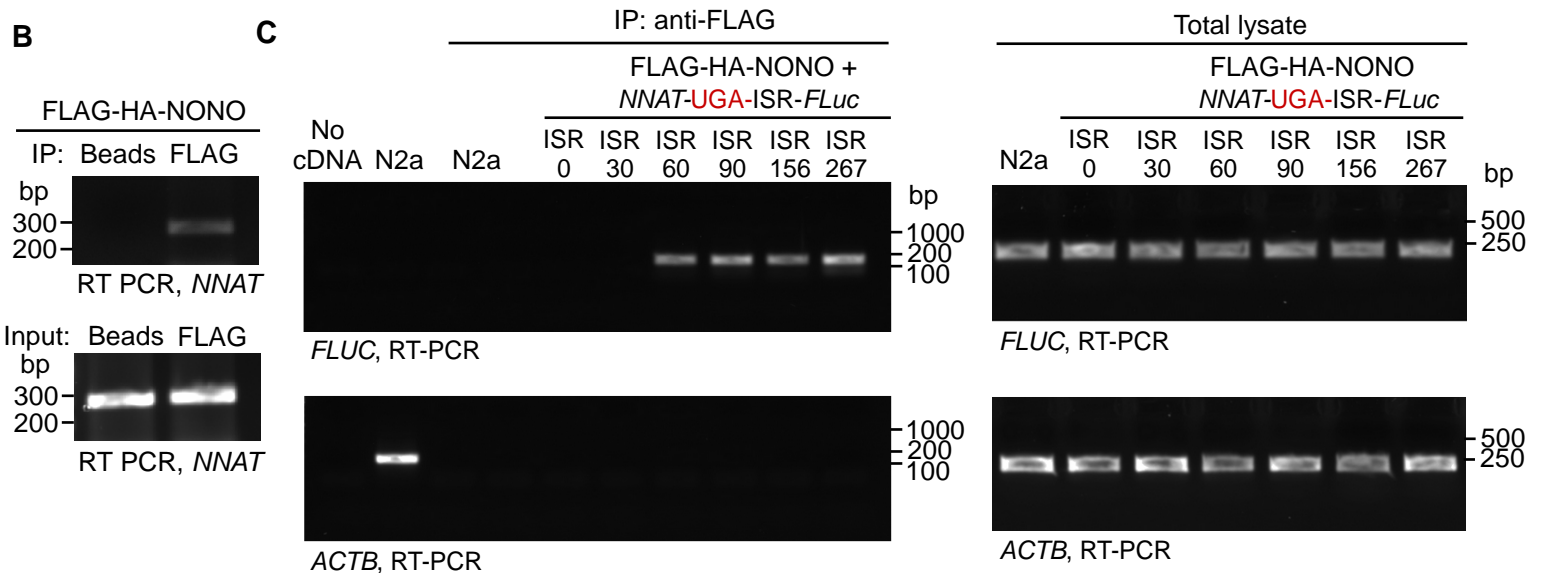
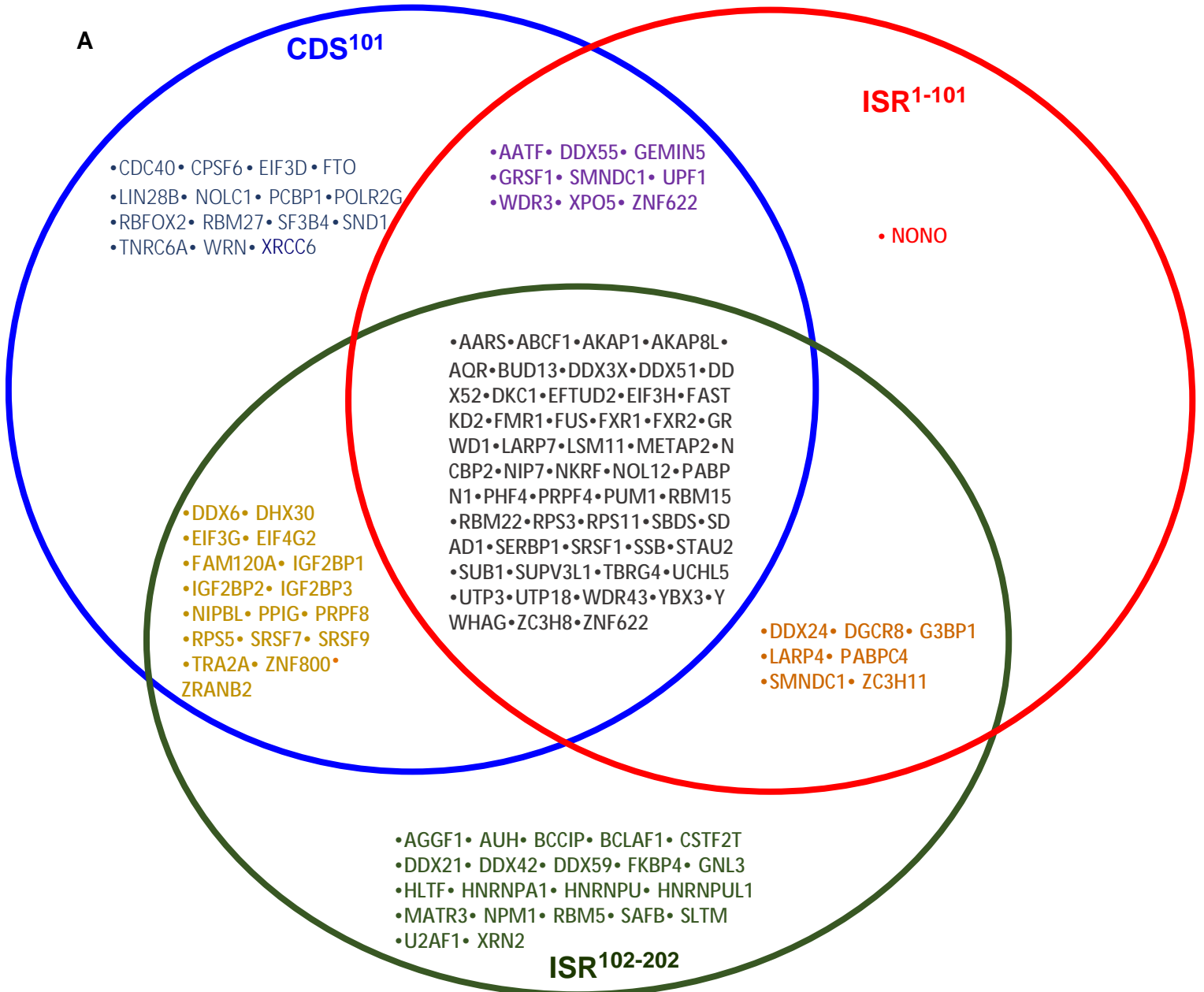


**Figure S3**

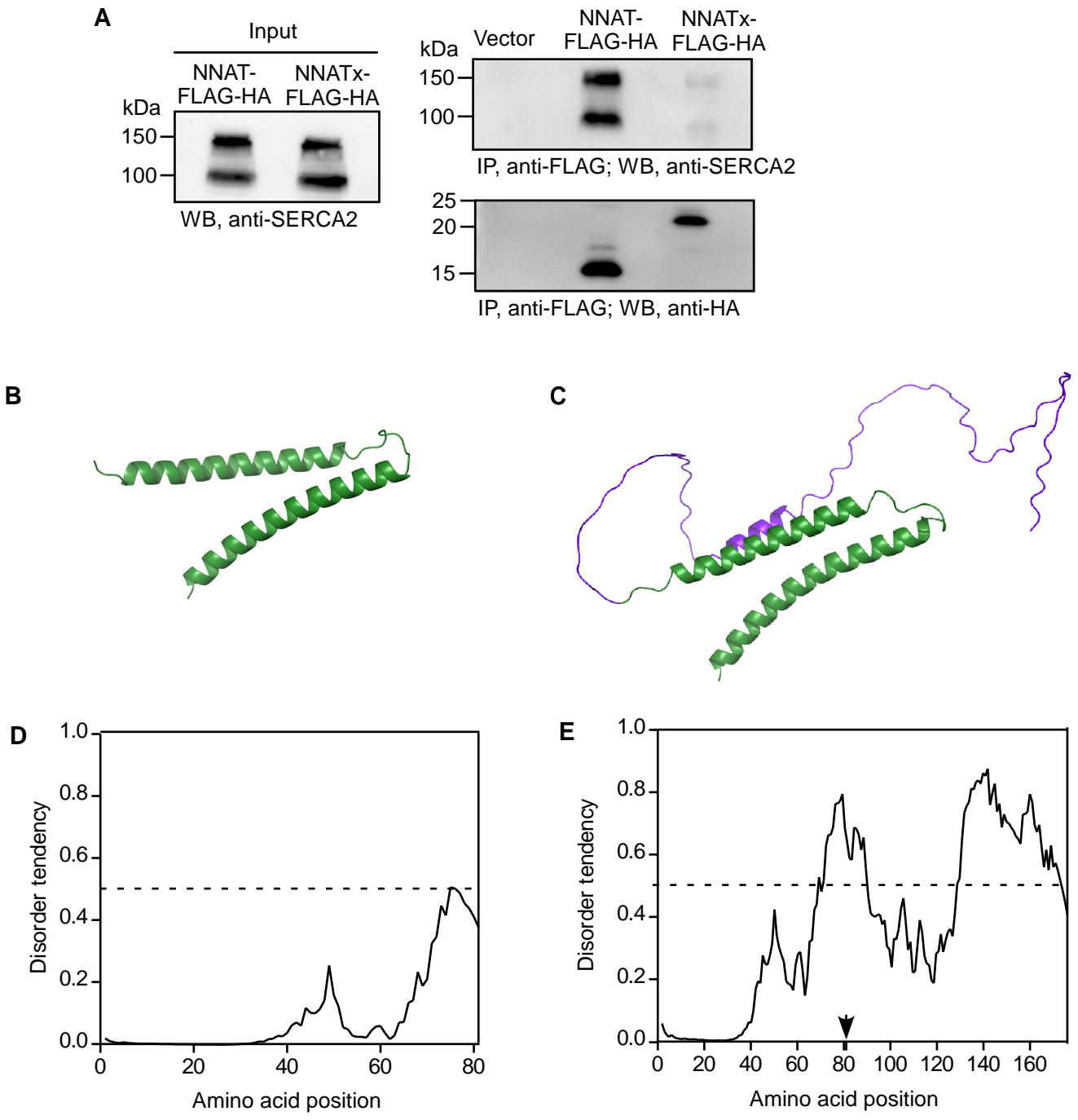
**Figure S4**



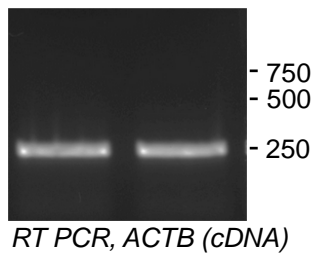
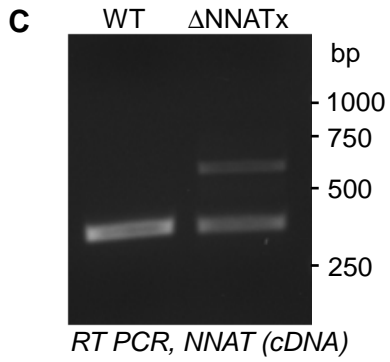
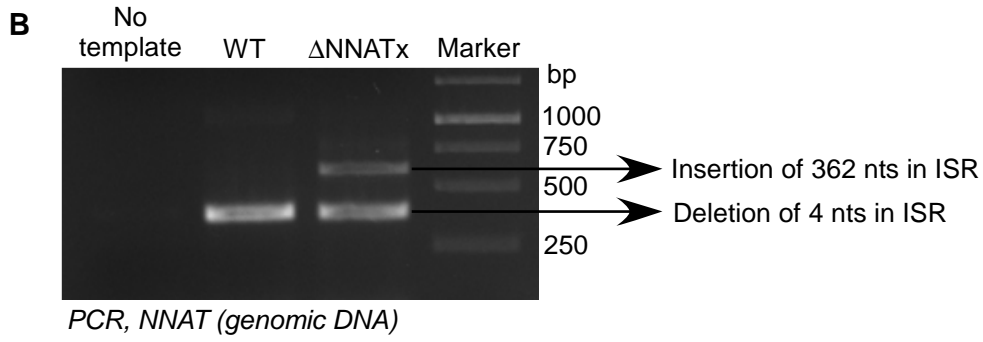
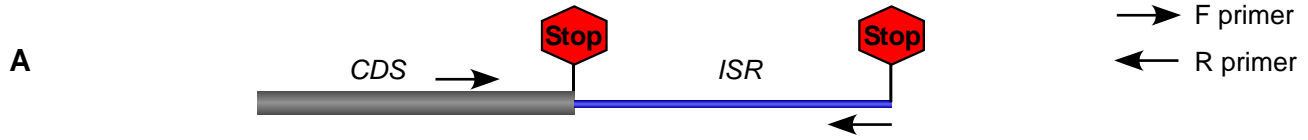
**Figure S5**



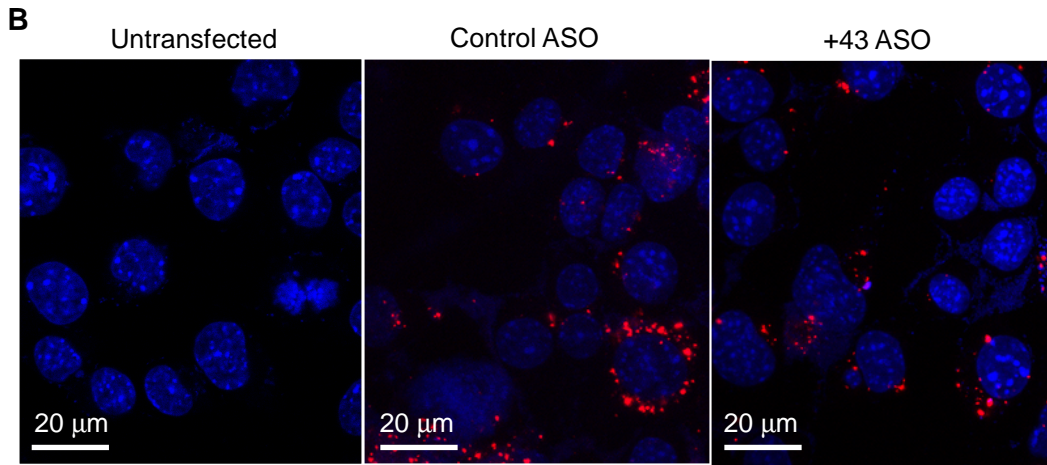
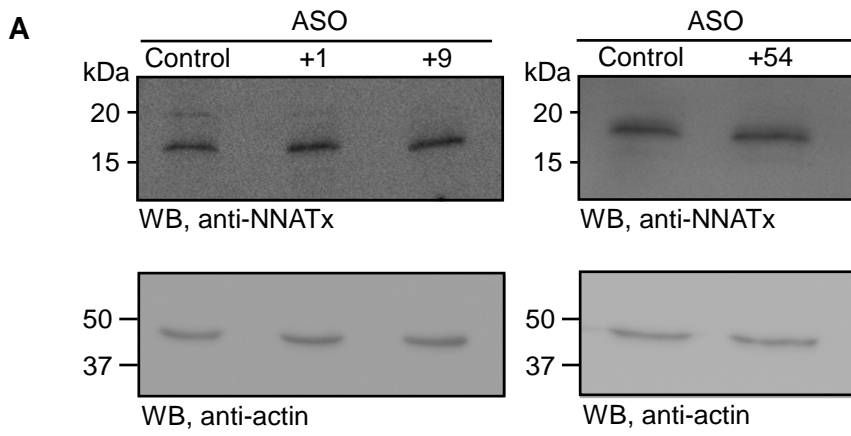
**Figure S6**



**Figure S7**



**Figure S8**



■ DAPI  
■ ASO (Cy3)

