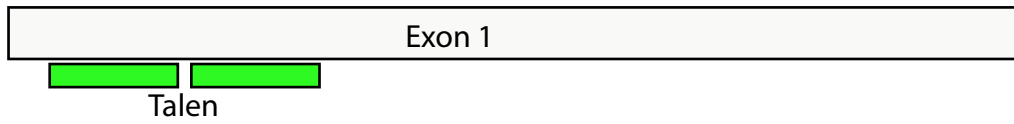


a)



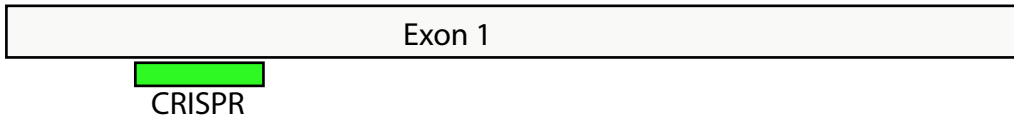
Wild-type ...CCGGAATACACCGAGACATACGATTACTACGATACTGGCTATAATGACTCTGGGTGTGACTAC...

aplnra<sup>mu296</sup>(+8) ...CCGGAATACACCGAGACATACGATTACTAatCGATTACTaatcaGGCTATAATGACTCTGGGTGTGACTAC...

stop

WT 362 AA  
stop at AA 13

b)

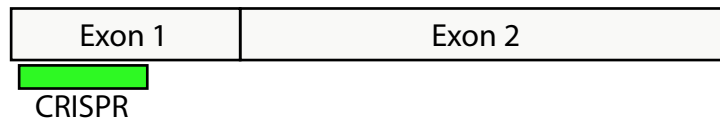


Wild-type ...TCTGATTCCCGTGCTCTACATGCTCATCTTCATCCTGGGACTCACT...

aplnrb<sup>mu270</sup>(+4) ...TCTGATTCCCGTGCTCTACATGCTCATCTTCAGctcTCCTGGGACTCACT... stop

WT 359 AA  
stop at AA 65

c)



Wild-type ATGAATGTGAAGATCTTGACGCTGGTGATT

apln<sup>mu267</sup> (-1;+9) ATGAATGTGAAGATCTTGttttcatttCGCTGGTGATT

stop

WT 77 AA  
stop at AA 11