
Single-molecule live-cell RNA imaging with CRISPR–Csm

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Supplementary Table 1. crRNA and oligo pool sequences.

CRISPR-Cas system	XIST crRNA spacer sequence
PspCas13b	AAAGCAGGTATCCGCGGCCCG
RfxCas13d	AAAGCAGGTATCCGCGGCCCG
Csm complex	AAAAGCAGGTATCCGCGGCCCGATGGGCAAA

Oligo name	Oligo sequences
TypellIA_array_NOTCH2_pool1_segment1	atcgaatccttaagctacgaacgatataaacctaattacctcgagaggggacggaacTTTGTTCTCAGCAGCATTTAC AAAAGTCAGTTATGatataaacctaattacctcgagaggggacggaacTACCCAGTGAACTGACGAATTG CTTCTCTTGCATTgatataaacctaattacctcgagaggggacggaacTACCTCTAGAAGCTGGCTCCAGAG ATTTCTTCATTTgatataaacctaattacctcgagaggggacggaacTTGTATTCATCTTGCATTTCCACAA
TypellIA_array_NOTCH2_pool1_segment2	TTGTATTCATCTTGCATTTCCACAACTTGTCTTATgatataaacctaattacctcgagaggggacggaacTTC AATAAGCATCCATCTTATTCTCCAAATAGAAGAgatataaacctaattacctcgagaggggacggaacTTCTC ATGGATATGGCAGAAGCCTGCAGGGCTTAAAgatataaacctaattacctcgagaggggacggaacAGCGC AATTACGCTTACGGTG
TypellIA_array_NOTCH2_pool1_segment3	tcgtgcacagtaggatataagcgatataaacctaattacctcgagaggggacggaacTTTCATGGGCCAGAAATGATCAA AAGCACAAAGGTCTgatataaacctaattacctcgagaggggacggaacTTTATATGAAGACCTGCACACAG ACAAGAAAAATTAgatataaacctaattacctcgagaggggacggaacTTTGTGCTGAGAACCATACCAAAG TAAACCTTGTGAgatataaacctaattacctcgagaggggacggaacTTCTCTCTCCAGGAATGATATATGC
TypellIA_array_NOTCH2_pool1_segment4	TTCTCTCTCCAGGAATGATATATGCAGGAGAACACAgatataaacctaattacctcgagaggggacggaacT TCCAAACCTTTTTCTGGTTTTAAAAAGTGGGGAGgatataaacctaattacctcgagaggggacggaacTTT ACACTGACCAGGCCCATACACAGAAAAACAACAgatataaacctaattacctcgagaggggacggaacTCTC ACGTACGACTGATGCA
TypellIA_array_NOTCH2_pool1_segment5	acctacgttgatgatctctcagatataaacctaattacctcgagaggggacggaacAAACAGGCCTAGAATGCTCAGAT CTGGGACAAATGTgatataaacctaattacctcgagaggggacggaacTTGGCAGGAAGTAGGGGGACCTG TGGGTGGGTAAGTgatataaacctaattacctcgagaggggacggaacTTCTGTGGATATGAAAGGAAAGG CTCAACAGTTAAGgatataaacctaattacctcgagaggggacggaacTTGGTGAGCAGGCCTTTAAGCAGC A
TypellIA_array_NOTCH2_pool1_segment6	TTGGTGAGCAGGCCTTTAAGCAGCAAGATAATCAGTgatataaacctaattacctcgagaggggacggaacT GTCAGTGGGTCCCTTGGGCTAAGGAAAGTTTCAGTCgatataaacctaattacctcgagaggggacggaacTA TAAAGTCCATGTCTTCAGTGAGAACATACTGGGTgatataaacctaattacctcgagaggggacggaacCGC TTAAGCAGATTGGTCCA
TypellIA_array_NOTCH2_pool1_segment7	taccacgcaatagtagtccatcgatataaacctaattacctcgagaggggacggaacTTCTTATAGGGCTGTTTTGGAT CATAGAAAACAAGTgatataaacctaattacctcgagaggggacggaacTAGGAAAGGAAAATGTTCTGTTG AGTTTCTACGTTAgatataaacctaattacctcgagaggggacggaacTTCAGAGGAAAAGAAATGGTAGCA GAAAATAGCAAAtatataaacctaattacctcgagaggggacggaacTTCAGGTGAGGGGCAATCAGTCTGA
TypellIA_array_NOTCH2_pool1_segment8	TTCAGGTGAGGGGCAATCAGTCTGAACAATGAGCAAgatataaacctaattacctcgagaggggacggaacT TAACTAAAATGCTTCTGCCCTTAAAGAAAGTCAAgatataaacctaattacctcgagaggggacggaacTTG CAGTGTAGCCATGGACCAATTATTAAGTGGCCGgatataaacctaattacctcgagaggggacggaacAGGT TAACACTGCCCTTGAA
TypellIA_array_NOTCH2_pool2_segment1	atcgaatccttaagctacgaacgatataaacctaattacctcgagaggggacggaacAAAGAGTCGGGAATTCACCTGT TAATATCTACAAAAtatataaacctaattacctcgagaggggacggaacATAGGACTGAAAAACCATTGTGTA AACTATTATGCCgatataaacctaattacctcgagaggggacggaacAAATCAGGTAAAGTGGGAAGCACTGA TGCATACTTGCGatataaacctaattacctcgagaggggacggaacAAATGGGTCCAAGGGCAGAGAGTCA
TypellIA_array_NOTCH2_pool2_segment2	GTGGGAAGCACTGATGCATACTTGCgatataaacctaattacctcgagaggggacggaacAAATGGGTCCA AGGGCAGAGAGTCAACATTTAGAATgatataaacctaattacctcgagaggggacggaacAAAGCAGAGAAT GAACAAACTTAATCTGCTTATCTCgatataaacctaattacctcgagaggggacggaacAGGGCAGAAAGGG GCAGGTACGCTGTGGTCCACAGAgatataaacctaattacctcgagaggggacggaacAGCGCAATTACGC TTACGGTG
TypellIA_array_NOTCH2_pool2_segment3	tcgtgcacagtaggatataagcgatataaacctaattacctcgagaggggacggaacAAAAGGGAGGATATAAAATATC CAGTGGCTGGATCAGatataaacctaattacctcgagaggggacggaacATGGCATAAAAGATGTGTCTCAT AAAACTGAGTCTgatataaacctaattacctcgagaggggacggaacAAAGGCAGTGTGTCTCTCCTCATC ACTGAAACCTGTgatataaacctaattacctcgagaggggacggaacAAACCCAAAGGATCCAAATTAAAGT

TypellIA_arr ay_NOTCH2 _pool2_seg ment4	TGTCCTCCTCATCACTGAAACCTGTgatataaacctaattacctcgagaggggacggaacAAACCCAAAGGA TCCAAATTAAAGTAGTCCAAGAAAgatataaacctaattacctcgagaggggacggaacTTACCTTCCCTTTT ATTAGATACCACACAATTCAA GgatataaacctaattacctcgagaggggacggaacAGAAGAGGAGTCAAA GAAAGAAAGCATTATAACA AgatataaacctaattacctcgagaggggacggaacTCTCACGTACGACTGA TGCA
TypellIA_arr ay_NOTCH2 _pool2_seg ment5	acctacgtgatgtatctctcagatataaacctaattacctcgagaggggacggaacACCTCACATAAGAAAATGATGCT TAAACAAAAACAGgatataaacctaattacctcgagaggggacggaacAAAACATTACACCTTTGGTTCTTTA TTATGCAAAAAGatataaacctaattacctcgagaggggacggaacTTTGAGCATCACAGCCAATTGCTTATA CTAAATATgatataaacctaattacctcgagaggggacggaacAAATGTGTCTCCCAAATAGTCATC
TypellIA_arr ay_NOTCH2 _pool2_seg ment6	CACAGCCAATTGCTTATACTAAAATATgatataaacctaattacctcgagaggggacggaacAAATGTGTCTCT CCCAAATAGTCATCATACATTCAATgatataaacctaattacctcgagaggggacggaacAAAGTGTGCATTT TCTTACTACGTTTAGTCAGGA AgatataaacctaattacctcgagaggggacggaacATATCACTTTTAAGA GAAATGTACACAAGGAAGTA AgatataaacctaattacctcgagaggggacggaacCGCTTAAGCAGATTGG TCCA
TypellIA_arr ay_NOTCH2 _pool2_seg ment7	taccacgaatagtatccatcgatataaacctaattacctcgagaggggacggaacTTTTGTGATAAAAATGCTTTCAT ATAATTTTCATCTgatataaacctaattacctcgagaggggacggaacTTTGTGGGATTGAGAAAAGAAAGAA AATTTGCTCTCgatataaacctaattacctcgagaggggacggaacTGCCAGGCCATGGATGCAGTATTGGA AAATAAAAAAGatataaacctaattacctcgagaggggacggaacTTTCCCAGGATCATTTATTTATGA
TypellIA_arr ay_NOTCH2 _pool2_seg ment8	ATGGATGCAGTATTGGAATAAAAAAGatataaacctaattacctcgagaggggacggaacTTTCCCAGG ATCATTTATTTATGATCTAATTAAGgatataaacctaattacctcgagaggggacggaacTTCCCAATTCTTG CTATAGCAACTACTTCGCATTTGgatataaacctaattacctcgagaggggacggaacTTTGTCAACAGCTAT GGCTAGTGCACAGAAGAGTGCgatataaacctaattacctcgagaggggacggaacAGGTTAACACTGCC TTGAA
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TypellIA_arr ay_MAP1B_ segment2	GAGATGAACTGGGGTAGGTAATTTTGCAGGA AgatataaacctaattacctcgagaggggacggaacGACA AATGCCTCTACCTAGCAGAAGTCAGTTGgatataaacctaattacctcgagaggggacggaacTCTCTCCTG CGTTATCTTTGTGCTCTCACTCTgatataaacctaattacctcgagaggggacggaacTCACCAAGAACTCTCT GTCATTACATCTCCTTCgatataaacctaattacctcgagaggggacggaacACTGACAAAATGGAAACTT TGCC
TypellIA_arr ay_MAP1B_ segment3	TCACCAGAACTCTCTGTCACTTACATCTCCTTCgatataaacctaattacctcgagaggggacggaacACTGAC AAAAATGGAAACTTTGCCTATGTAGgatataaacctaattacctcgagaggggacggaacCCTAATTGTTG GTTTATTTTCTCCTCCTTACCgatataaacctaattacctcgagaggggacggaacGTTGTTCTTTTACTTTC TTCTAGCCAACTTG
TypellIA_arr ay_MAP1B_ segment4	GTTGTTCTTTTTACTTTCTTAGCCAACTTGgatataaacctaattacctcgagaggggacggaacGTGTGC AGCCTTCAAAGTGAAGGAGCTTAATTgatataaacctaattacctcgagaggggacggaacGTCTGAGAGTT CTGAATGGGGCCCAACCACTgatataaacctaattacctcgagaggggacggaacAGCGCAATTACGCTTA CGGT
TypellIA_arr ay_MAP1B_ segment5	tcgtgcacagtaggatataagcgatataaacctaattacctcgagaggggacggaacCAACTGCTTTGGTATTTGCTTC AGTTAATTGGgatataaacctaattacctcgagaggggacggaacTCAGAGTGGACTAAGTGGGTGGACAAA TGCTGgatataaacctaattacctcgagaggggacggaacAAGTGCATCAAGTATCTTTGTACATTCAAGTCg atataaacctaattacctcgagaggggacggaacCATGACTCAGCATCAAAGTGTGGACCAATCA
TypellIA_arr ay_MAP1B_ segment6	CATGACTCAGCATCAAAGTGTGGACCAATC AgatataaacctaattacctcgagaggggacggaacCGTGT TCCTTTAAGTATCTATAATCCTATATGgatataaacctaattacctcgagaggggacggaacAAGCTGTGAAA GGCACAACCTGTTTACTGAGgatataaacctaattacctcgagaggggacggaacAAGATTCACTGTTTTTC CCAGTTCTGATCATAGgatataaacctaattacctcgagaggggacggaacAAGCCAATGTAAGACAAAGGA AGG
TypellIA_arr ay_MAP1B_ segment7	AAGATTCACTGTTTTCCAGTTCTGATCATAGgatataaacctaattacctcgagaggggacggaacAAGCC AATGTAAGACAAAGGAAGGTAAATACTgatataaacctaattacctcgagaggggacggaacTAAATGAAAA CATTTGTTAAAAAGTTCATCTA AgatataaacctaattacctcgagaggggacggaacTCTTCTGTACACTTGT TCCATAATTATGTTG

TypellIA_array_MAP1B_segment8	TCTTCTGTACACTTGTTCCTAATTATGTTGgatataaacctaattacctcgagaggggacggaacCATTATCAATTTTTGTCTTACGAAACACTTAgatataaacctaattacctcgagaggggacggaacGTTATGGGTTTTTAATAAATATCATTACTGCAGatataaacctaattacctcgagaggggacggaacTCTCACGTACGACTGATGCA
TypellIA_array_MAP1B_segment9	acctacgttgatgtaictctcagatataaacctaattacctcgagaggggacggaacTCTCCCCACTCTCAAGTAGCACTTTTATGTTgatataaacctaattacctcgagaggggacggaacAGAAGTATGTAGGATACCACTGGGTGATGTACgatataaacctaattacctcgagaggggacggaacGAACCGTAGGAGTTGAGAAATTCATTTGTTTTGgatataaacctaattacctcgagaggggacggaacGAAAATCCCCAAAGCAAATTTGTGCTAGGGTTC
TypellIA_array_MAP1B_segment10	GAAAATCCCAAAGCAAATTTGTGCTAGGGTTCgatataaacctaattacctcgagaggggacggaacTAATCATGATCTGGCTTCCCAGGTTACAGTTgatataaacctaattacctcgagaggggacggaacACGGAGAAGTTGCGCTCATCTGAACACTGGGTgatataaacctaattacctcgagaggggacggaacTCATTGTTCTCTACTCCGTAGATCTTAGAGTCgatataaacctaattacctcgagaggggacggaacGACTTATCAGACAAAAATCAAC
TypellIA_array_MAP1B_segment11	TCATTGTTCTCTACTCCGTAGATCTTAGAGTCgatataaacctaattacctcgagaggggacggaacGACTTATCAGACAAAAATCAACTAAAAATGTTAgatataaacctaattacctcgagaggggacggaacTAGGTCCTCAGTGAAAGGACCCTGAAGAAGCAGatataaacctaattacctcgagaggggacggaacTTCCAAGGACTTGAAAGAAATGGGGTAATAA
TypellIA_array_MAP1B_segment12	TTTCCAAGGACTTGAAAGAAATGGGGTAATAAgatataaacctaattacctcgagaggggacggaacATATTAATTTTCTTTAAAAAATTAACATTTGgatataaacctaattacctcgagaggggacggaacACTCAATGAAATTCATTGGCGTCACAATGACTgatataaacctaattacctcgagaggggacggaacCGCTTAAGCAGATTGGTCCA
TypellIA_array_MAP1B_segment13	taccacgcaatagtatccatcggatataaacctaattacctcgagaggggacggaacCCATTAAATAATTATCTTGAGTATCTTAGGTTgatataaacctaattacctcgagaggggacggaacACATTTAATTGTGAAATTGGAAAAATACTTGCgatataaacctaattacctcgagaggggacggaacTTGGCAAGAAGGCTAAAAATCTGGTTTTCTTCgatataaacctaattacctcgagaggggacggaacAACTGAAGACTGGCTATAATTCTCCTACAATG
TypellIA_array_MAP1B_segment14	AACTGAAGACTGGCTATAATTCTCCTACAATGgatataaacctaattacctcgagaggggacggaacTTTACATATTTTTCCCATTAATCCCATAGCAGatataaacctaattacctcgagaggggacggaacTGAGAACACGGATGGAGAAAGGTACTGATAGgatataaacctaattacctcgagaggggacggaacTGGAAGGACAGGAGCAACCTGTAATGCGAATAgatataaacctaattacctcgagaggggacggaacGGCTGTTACTAACTAATCGTG
TypellIA_array_MAP1B_segment15	TGGAAGGACAGGAGCAACCTGTAATGCGAATAgatataaacctaattacctcgagaggggacggaacGGCTGTTACTAACTAATCGTGATTTTATGGAgatataaacctaattacctcgagaggggacggaacTGAACAAAGCTCCTAGAAGTCTGTGTCGATCTgatataaacctaattacctcgagaggggacggaacCATTTAAACAGAGTGTAATTCCTTCCACTCA
TypellIA_array_MAP1B_segment16	CATTTAAACAGAGTGTAATTCCTTCCACTCAGatataaacctaattacctcgagaggggacggaacCTCTGTAGAATTTTGTTTAAGAATACTACCAAgatataaacctaattacctcgagaggggacggaacCTCAGGGTTTTGAGAAAGGGGACAGAATTGGTgatataaacctaattacctcgagaggggacggaacAGGTTAACTGCCCCTTGAA

Supplementary Table 2. Csm complex and CRISPR array plasmid sequences.

Plasmid	pCX420
Description	Cytoplasmic-targeting Csm complex plasmid
GTGATGCGGTTTTGGCAGTACATCAATGGGCGTGGATAGCGGTTTGACTCACCGGGATTTCCAAGTCTCCACCCCATGACGTCAATGGGAGTTT GTTTTGGCAGCAAAATCAACGGGACTTCCAAAATGCTGTAACAACTCCGCCCATTTGACGCAAAATGGGCGGTAGGCGTGTACGGTGGGAGTCT ATATAAGCAGAGCTCGTTTAGTGAACCTCGAGATCTCTAGAGcgccaccATTGCACCATACCATCACCATTCCGGCGGATTACAAAGACGATGACGATA AGCGGGGCATGAAGAAAGAAAAGATTGATCTGTTTTACGGAGCCCTGCTGCACGACATCGGAAAGGTTCATCCAGCGCAACACCGGAGAGCGGAA GAAACACGCATCTGTGGCGCGGACTGGTTGCACGAGATCGCCGACAACCAAGTCATCGGATCAGATCCGGTACCATAGGCCAACTACCGATT CTGATAAGCTCGGACAGCATACCTGGCTATACATCACTACATTGCGGACAACATCGCCTCCGGTGTGCAGCCGCGGCAATCCAAACGAAGATCA GACGAAGATACCTCCGCAAAAGATCTGGGACAGCTACACGAACCAAGGCCGACATCTTAAAGTGTTCGGAGCGCAGACCGGATAAGCGGTACTTCAA GCCATCCGTGCTGAATCTCAAGTCGAAGGCCAACTTCGGCTCGGCCACTTACGAACCTTTAGCAAGGGCGATTACGCTGCCATCGCCACCGCCGA TTAAGAACGAAGTCGGCGAGTTGAGTTTCAACCAAGTCAGATTGACTCCCTGCTCAACCTTTTCAGGCTACTCTCTCTCTGTCGGCTCAAGC CCAACATAAGGAAATCGCCGACATCTCCCTGGCCGACCATCCCGCTTGACTGCTGCCTTCGCTCTGGCGATCTACGATACCTTGAGGGACAACT GGTCGGCACAACATAAAGAGGACCTGTTCAACAAAGTGCAGCGTCTATGAAGAAGAACGCTTCTCTGGCTGCCCTCTCGACCTCTCGGGAAAT CCAGGACTTTATCTACAACATTAACATCGCAACTAACCGCGCGGCAAGCAGCTGAAGCGCCGGAGCCCTTACCTGGACTTTATGTCCGAGTACA TGGCCGATAGCTGCTGTCGACAAAGCTGGGACGTGAACAGGCTTAACATGCTTACGTGCGGCGGCGGCAACGCGCTACTTCTGCTTGGCCAAACACCGA AAAGACTGTGGAACCTGCTGGTCAGTTTGAAGAAGATTCAACCAAGTTCCTTGGCAAACCTCCAGACCCGCTCTATGTGGCTCTTTGGCTGGG GTTCTTTCGGCGGCAAGGACATATGCGAGCTGAATAGCCCCGAGCTCTACCCGCAAGTGTACCAAAGGCTTCGCGCATGATCTCCAAAAG AAAATCTCCAGATACGATACCCAGACATGATGCTCTGTAATCGCGGTGGAAGACTCTCAGAGAGAGATGCGAGATTTGCCACTCCGTGGAGAA CCTGGTGTCTTACCACGACCAAGAAAGTGTGACATTTGCTGGGGGACTGACCACTTCTCGAAAGAAATTTGCCATGACCATCTCATTAACCGA AAATGAGGGGTCGCCGATTGGACCAACACCGGTGCTTAAAGCGCTGGCATTCGAAAGCTGTCCAAAGAACGTTACGCCGGTCTACGTGAAG AATGACTATAAGGCCGTACCGTGAAGGCTACGATGTGTTCTGTGGGGATTACCAAGTACGACGAGATCTACAACCTACGCCGCCCTGAGCAAGAA CGAGAAGCGCTAGGCATCAAGAGACTGGCCGTGGTCTGCAGCTGGGATGACTGGCGCGGCTTCATGGCCGGTTTCAGCCAGCAGGGG AAACGGCAACCTTCCACTCTGTCAAGATCGGCCACATCTCCCGGAGCATGTGCTGTTCTTCAAAGTGATACATTAACGATTCGCCCTCGCAAC GAAGCTGAGCATTATCTACGCGGGCGCGCATGACGTGTTGCCATTGGATGCTGGCAGGATATCATCGCTTCACTGTGGAAGTTCGCCGAAACT TCATCAAGTGGACCAACCGGAAGCTCACCTCTCCCGGGGATAGGTTGTTCCGCGCAACAGACTCTTATGAGCTGATGGCTCACCCAGCGCGG GGAACGTGAAGAGCGCCGCAAGGCAAGAAAGGACTCCATCTCGTGTTCTCAAGCGACTACATTTCAAGTTTGATAGTTTCACTACTACGAT GTACGACGACAAACTGGAACAGATTAGATACTTCTCAACCATCAAGACGAGAGGGGAAAGAACTTCATCTATAAGCTTATTGAGCTTTGAGGAAC CAGCAGCGCATGAATATTGGACGCGCTGCCATTAACCTCATCGCTGCGGAGAAAGCTACGCCGGAGACTGACGAGGACAAAGTTCAAGCACTTCAA GAACCTGTCTACTCTGTCGACCCCAACCAAGCAATGAAGACCGGGAAGAACGCGAGCTGCGCTCTGTGATCATACGAAATCAAGAAAG ATTAAcgccaataaaaagacagataaaaacgcacgggtgtgggtcgttgttcGCACACATTAGCTAGCCGTGACGACACATTGTGATGCGGTTTTGGCAGTACATCAATG GGCGTGGATAGCGGTTTGACTACCGGGGATTTCCAAGTCTCCACCCCATTTGACGTCAATGGGAGTTTGTTTTGGCAGCAAAATCAACGGGACTTTT CAAAATGTCGTAACAACTCCGCCCATTTGACGCAAAATGGGCGGTAGGCGTGTACGGTGGGAGTCTATATAAGCAGAGCTCGTTTAGTGAACCT CAGATCTCTAGAGcgccaccATTGGATTACAAAGACGATGACGATAAGCGGGGCATGACCATCTTGACCGACGAGAAGTACGTGGACATCGCCGAGA AAGCCATCTGAAGCTGGAAGAGAAACACCGAAATAGAAAGACCCCTGATGCCTTCTCTGACACCATCTAAGCTCGGCAAGCTCTGAGCCCTGGA CAAGCACCTGTTCGACGAGAGCAAGGTGAAGAAATACGACGCCCTGCTGGACAGAATCGTTATCTGAGATGCAATTCGTGTACCAAGCGCGG CAGAGAGATCGCCGTGAAAGATCTGATCGAGAAGGCCGAGATCTGGAAGCTCTGAAAGAGATCAAGGACCGGGAACCCCTGCAGAGATTCTGG AGATACAGTGAAGCCCTGGTGGCCATCTTCAAGTTCTACGGCGGCAAGGACTGACgccaataaaaagacagataaaaacgcacgggtgtgggtcgttgttcAGTTCTT TGCTTACTTTCAATGCATTCGGTGATCGGTTTTTGGCAGTACATCAAGTGGCGTGGATAGCGGTTTGACTACCGGGGATTTCCAAGTCTCCACCC CATTGACGTCAATGGGAGTTTGTTTTGGCAGCAAAATCAACGGGACTTTCCAAAATGTCGTAACAACTCCGCCCATTTGACGCAAAATGGGCGGTAG GCGTGTACGGTGGGAGTGTATATAAGCAGCTCGTTTAGTGAACCTCGAGATCTCTAGAGcgccaccATTGGATACAAAGACGATGACGATAAGC GGGGCATGACCTTCGCCAAGATCAAAATTCAGCGCCGATCGCGCTGGAACCGGCTGCATCATCGGAGATCTGATGCCTTTGCCGCTATCGG CGCCATCGCCAGCCCTGTGATCAAGGACCCCATCAACCACTGCCTATCAATCCCGGCTCTAGCCTGAAGGGCAAGATGAGAACACTGCTGGCCA AGGTGTACAACGAAAAGGTGGCGGACAGAGCTCGAGCAGACGAGCATCTCGAGCAGACTGTTCCGAAATAGCAAGGATAAGCGGTTCAAGAT GGGACAGCTGATCTTCGGGAGCGCTTCTGAGCAACGCGCAGCAGTGGATTTCTCTGGGCTGCGGAGCTACACCGAGGTGAAGTTGCGAGAAC ACCATCGATAGAATCACCGCGAGGCCAATCTGACAGAGATCGAGAGAGCCATTCCGAACTCAACATTGCACTTCGAGCTCGAGCTGATCTACGAGATCACT GATGAGAATGAGAACCAGTTCAGGAAGATTCAAGGTGATCAGAGACCGGCTGAAGCTGCTGGAAGTGGACTACCTGGGCGGGAACCGGCTCCA GAGGCTACGGCAAGTGCTTTTGAAGACTGAAGGCCACACAGTGTTGCCCAACTACGACGTGAAACCCCTGAACGAGCTGCTGACCCGCCAA GTGggtagcaaggagagaagaactttcactggaagtgtcccaattcttgtgaattagatgtgattgtaattgggcacaaaatttctgctgtggagaggttgaaagtgatgctacaaacggaataactcaacctaaattt atttgcaactctgaaaactcaactgttcggtggccaacctgtgcaactctgacattgtggttgtaagtggtttccggtatccgtgacatgataaaggcgatgactttcaagagtgccatcccggaagtggtatgacag aacgcactatattcttaagaatgagggacccaacgaagcgtgtgtaagtgtaaggtgatacctgtgtaactgagtgtaagaggttgattgtattaaagagatggaataactttggacataactcg 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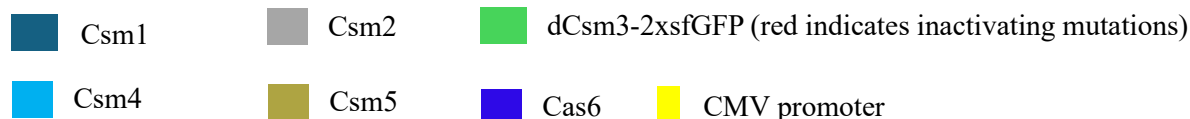
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[illegible]

■ CAG promoter ■ HSPB3 export signal ■ *SthCsm* direct repeat sequence

Plasmid	pCX138
Description	CRISPR array plasmid for <i>NOTCH2</i> (Spacers 25-48)

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CAG promoter
 HSPB3 export signal
 SttCsm direct repeat sequence

Plasmid	pCX460
Description	CRISPR array plasmid for <i>MAP1B</i> (Spacers 25-48)

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gggaggggacggaaacGACTTATCAGACAAAAATCACTAAATGTTAgataataacctaattacctcgagaggggacggaaacACATTTAATTGTAAATTTGAAAAATAACTTGTGCGat
ataaacctaattacctcgagaggggacggaaacTTGGCAAGAAGGCTAAAAATCTGGTTTTCTTCgataataacctaattacctcgagaggggacggaaacAACTGAAGACTGGCT
ATAATTCTCTACAATGgataataacctaattacctcgagaggggacggaaacTTTACATATTTTCCCATTAATCCCATAGCAgataataacctaattacctcgagaggggacggaa
actTGAGAACAAAGCTAGTGAAGAAAGTACTGATAGataataacctaattacctcgagaggggacggaaacTGGAAGGACAGGAGCAACTGTAAATGCGAATAgataata
acctaattacctcgagaggggacggaaacGGCTGTTACTAACTAATCTGTATTATGGAataataacctaattacctcgagaggggacggaaacTGAACAAAGCTCCTAGAAG
TCTGTGTGATCTgataataacctaattacctcgagaggggacggaaacCATTTAAACAGAGTGTAAATTCCTTCCACTCAgataataacctaattacctcgagaggggacggaaac
TCTGTAGAATTTTGTAAAGAACTACCAAgataataacctaattacctcgagaggggacggaaacCTCAGGGTTTTGAGAAAGGGGACAGAATTTGGTgataataaccta
ttacctcgagaggggacggaaacAGGTAAACACTGCCCTTGAAGCTAGCAGATCTTTTCCCTCTGCCAAAAATATGGGGACATCATGAAGCCCTTGAGCAT
CTGACTCTGGCTAATAAAGGAAATTTATTTTCATTGCAATAGTGTGTTGGAATTTTTGTGTCTCTCACTCGGAAGGCATATGGGAGGTCAAATCAT
TTAAAGCTCAGTAATGAGTATTGTTTGAAGTTTGGCAACATATGCCATATGTTGCTGCCATGAACAAAGGTTGGCTATAAAGAGGCTCATAGTAT
ATGAACAGCCCCCTGCTGTCCATTCTTATCCATAGAAAAGCCTTGACTTGAGGTTAGATTTTTTTATATTTTGTTTGTGTTATTTTTCTTTAACA
TCCTAAAAATTTCTTACATGTTTTACTAGCCAGATTTTTCTCTCTCTGACTACTCCCAGTCATAGCTGTCCCTCTCTCTTATGgAGATCCCTCG
ACCTGCAGCCCAAGCTTGGCGTAATCATGGTCATAGCTGTTTCTGTGTGATAATTGTTATCCCGTCAACAATTCACAAACATACGAGCCGCAAGCAT
AAAGTGTAAGCCTGGGGTGCTTAATGAGTGAGCTAATCACAATTAATGCGTTGCGCTCACTGCCGCTTTCCAGTCGGGAAACCTGTCGTGCCA
GCGGATCCGATCTCAATTAGTCAGCAACCATAGTCCCGCCCTTAATCCGCCCATCCCGCCCTTAATCCGCCAGTTCGCCCTTCTCCGCCCT
CATGGCTGACTAATTTTTTTTATTATGACAGGCCGAGGCCGCTCGGCTGCTGAGCTATTCCAGAAGTAGTGAGGAGCTTTTTTGGAGCGCTAG
GCTTTTGCAAAAAGCTAATCTGTTTATTGACGCTTATAATGGTTACAAATAAAGCAATAGCATCAAAATTCACAAATAAAGCATTTTTTCACTGCATT
CTAGTTGTGTTTTGTCGCAACTCATCAATGTATCTTATCATGTCTGGATCGCTGCATTATGATGATCGGCCAACCGCGCGGGGAGGCGGTTTGCGTGTA
TTGGGCGCTCTTCCGCTTCTCGCTCACTGACTCGCTGCGCTCGGTCTGCGTCTGCGTCCGCGAGCGGATCAGCTCACTCAAGAGCGGTATACCG
TTATCCACAGAATCAGGGGATAACGCAGGAAAGACATGTGAGCAAAAGGCCAGCAAAAGGCCAGGAACCGTAAAAAGGCCGCTTGTGCGGCTT
TTTCTATAGGCTCCGCGCCCTGACGAGCATCAAAAAATCGACGCTCAAGTCAGAGGTGGCGAAACCCGACAGGACTATAAAGATACCAGCGCTT
TCCCTTGAAGCTCCCTCTGCGCTCTCCTGTTCCGACCTTCCGCTTACCAGATACCTGTCGCGCTTTCTCCCTTCCGCGAAGCGTGGCGCTTT
CTCAtaGCTCAGCTGTAGGTATCTCAGTTCGGTGTAGGTGCTTCCGCTCCAAGCTGGGCTGTGTGACGAACCCCGCTTACGCCGACCGCTGCG
CCTTATCCGGTAACATCTGCTTGAAGTCCAAACCGGTGAAGACACGACTTATCGCCACTGGCAGCAGCCACTGTTAACAGGATTAGCAGAGCGAGGTA
TGTATCGGGTGTGCTACAGAGTCTTGAAGTGGTCCCTAAGTACGCTACAGTAAGTAAGTAAAGTATATGAGTAAACTTGGTCTGACAGTTACCAATGCTTAATCA
TTCGAAAAAGAGTTGGTAGCTCTTGATCCGGCAACAAACCACCGCTGGTAGCGGTGGTTTTTTTGTGTTGCAAGCAGCAGATTACGCGCAGAAAA
AAAGGATCTCAAGAAGATCCTTTGATCTTTTACGCGGGTCTGACGCTCAGTGGGAAGCAAAACTCACGTTAAGGGATTTTGGTCTGAGATTATCAAA
AAGGATCTTCACTAGATCTTTTAAATTAATAATGAAGTTTTAAATCAATCTAAAGTATATGAGTAAACTTGGTCTGACAGTTACCAATGCTTAATCA
GTGAGGCACCTATCTCAGCGATCTGTCTATTTGTTTCATCCATAGTTGCCTGACTCCCCGTCGTGTAGATAACTACGATACGGGAGGGCTTACCATCT
GGCCCCAGTGTGCAATGATACCGCGAGACCCACGCTCACCGGCTCCAGATTATCAGCAATAAACCAGCCAGCGGGAAGGGCGGAGCGCAGGAAG
TGGTCTGCAACTTTATCCGCTCCATCCAGTCTATTAATTGTGCCGGGAAGCTAGAGTAAGTAAAGTTCGCCAGTTAAATGTTTGGCAGCAACGTTGTTG
CCATTGCTACAGGCATCGTGGTGTACGCTCGTCTTGGTATGGCTTCACTCAGCTCCGTTCCCAACGATCAAGGCGAGTTACATGATCCCCAT
GTTGTGCAAAAAAGCGTTAGCTCCTTCCGTCCTCGATCGTTGTGAGAAGTAAGTTGGCCGAGTGTATCACTCATGGTTATGGCAGCACTGCAT
AATTCTCTTACTGTATGCCATGCTTAAGATGCTTTTCTGTGACTGTGAGTACTCAACCAAGTCATTCTGAGAATAGGTATGTCGCGCAGCGAGTTG
CTCTTGCCCGGCTCAATACGGGATAATACCGCGCCACATAGCAGAACTTTAAAGTGCTCATCTATTGAAACCGTTCTCGGGGCGAAAACTCTCA
AGGATCTTACCCTGTTGAGATCCAGTTGATGTAACCCACTCGTGACCCAACTGATCTTACAGCATCTTTTACTTTTACCAGCGCTTCTGGGTGAGC
AAAAACGGAAGGCAAAATGCCGCAAAAAAGGAATAAGGGCGACACGGAATGTGAAATACTACTCTTCCCTTTTCAATATTATGAAGCATTTA
TCAGGGTTATTGTCTCATGAGCGGATACATTTGAATGTATTTAGAAAAATAACAATAGGGGTTCCGCGCACATTTCCCCGAAAAAGTGCCACCTG

 CAG promoter  HSPB3 export signal  *Sth*Csm direct repeat sequence

Supplementary Table 3. smFISH probe sequences for *NOTCH2*, *MAP1B* and SthCsm pre-crRNA.

FISH probe number	<i>NOTCH2</i> FISH probe Sequence
1	GGGATGTATTGAAGGAGGAT GTTACAAACCAATCATTTACATAACAGCAT A GGGATGTATTGAAGGAGGAT
2	GGGATGTATTGAAGGAGGAT TTGGAAGGCACCTTGCCCTGAGCAACCAT A GGGATGTATTGAAGGAGGAT
3	GGGATGTATTGAAGGAGGAT CAGTTTTGTGATGTTTCCTATTTGACAGAT A GGGATGTATTGAAGGAGGAT
4	GGGATGTATTGAAGGAGGAT ACAACACCACTGAGCTTGGCAAACCTTTTT A GGGATGTATTGAAGGAGGAT
5	GGGATGTATTGAAGGAGGAT ACTACCTTTAGAAATGAAACGGAAAAAGTAA A GGGATGTATTGAAGGAGGAT
6	GGGATGTATTGAAGGAGGAT TCGGTCATTTTATTGTTACTGGGTTTCT A GGGATGTATTGAAGGAGGAT
7	GGGATGTATTGAAGGAGGAT ATAGTACCATTATTAGTGGGGGCCTCTGG A GGGATGTATTGAAGGAGGAT
8	GGGATGTATTGAAGGAGGAT GGTTAGGGCCAAAATCCCTAAACCACCTCT A GGGATGTATTGAAGGAGGAT
9	GGGATGTATTGAAGGAGGAT AATTGGCAAATCAATAAGAGGATGCAATG A GGGATGTATTGAAGGAGGAT
10	GGGATGTATTGAAGGAGGAT TTCTCAGACTCTCTTCCCTCATACCTTTC A GGGATGTATTGAAGGAGGAT
11	GGGATGTATTGAAGGAGGAT AACAAACAAAAAACCTATCCCCAAAGGCA A GGGATGTATTGAAGGAGGAT
12	GGGATGTATTGAAGGAGGAT TTCAGAACCCAAATGAGAAAGTGATTATCC A GGGATGTATTGAAGGAGGAT
13	GGGATGTATTGAAGGAGGAT CTGTAATGACAGCTTTCACATTCCCTTCT A GGGATGTATTGAAGGAGGAT
14	GGGATGTATTGAAGGAGGAT AACAAAGCAATTTGGTCTGACATTGTGCTTA A GGGATGTATTGAAGGAGGAT
15	GGGATGTATTGAAGGAGGAT GCTGATACTTTCAGAAGTGGGGCTGGAGCA A GGGATGTATTGAAGGAGGAT
16	GGGATGTATTGAAGGAGGAT TCCATGCAGATAGGTTCTCCCATCTGTGA A GGGATGTATTGAAGGAGGAT
17	GGGATGTATTGAAGGAGGAT TTGCACACTATGAAAGAGGCTGACAGAATG A GGGATGTATTGAAGGAGGAT
18	GGGATGTATTGAAGGAGGAT AGACACGCAGGGTTTCCATATGGGGCCACC A GGGATGTATTGAAGGAGGAT
19	GGGATGTATTGAAGGAGGAT GCCATAGAAGGAATGAGAACTGTCATTCAA A GGGATGTATTGAAGGAGGAT
20	GGGATGTATTGAAGGAGGAT AGGCAGAACTATTTTGCAGGTGTCATGGG A GGGATGTATTGAAGGAGGAT
21	GGGATGTATTGAAGGAGGAT GGAGAAGAGGAAGAAAACCTATTCTTTATCT A GGGATGTATTGAAGGAGGAT
22	GGGATGTATTGAAGGAGGAT AAATTGCCAAGAGCATGAATACAGAGAGTG A GGGATGTATTGAAGGAGGAT
23	GGGATGTATTGAAGGAGGAT CTATAGTTGTCCATTATCATCTAAAAGGTG A GGGATGTATTGAAGGAGGAT
24	GGGATGTATTGAAGGAGGAT AGTAACACGGACCACACGGTGTGAAAGAAA A GGGATGTATTGAAGGAGGAT
25	GGGATGTATTGAAGGAGGAT GAGACTGATCATCTGACAAACGGAAAGACAA A GGGATGTATTGAAGGAGGAT
26	GGGATGTATTGAAGGAGGAT AATGGCAAGGGTACAACATTTGAGACAGTG A GGGATGTATTGAAGGAGGAT
27	GGGATGTATTGAAGGAGGAT TTGCACGAGTTAACTGTCTCTTGGTCATT A GGGATGTATTGAAGGAGGAT
28	GGGATGTATTGAAGGAGGAT GTCATAGTAACTAGACTATCAAGGATAAAA A GGGATGTATTGAAGGAGGAT
29	GGGATGTATTGAAGGAGGAT GGTGCAGCCTCTTGAAGGGATCTCCTGCCC A GGGATGTATTGAAGGAGGAT
30	GGGATGTATTGAAGGAGGAT AAAATTTGTTGAAGAAAAGTATTCTTCTCC A GGGATGTATTGAAGGAGGAT
31	GGGATGTATTGAAGGAGGAT GTATGTCCATTTTCCAAAGAAACAACATAC A GGGATGTATTGAAGGAGGAT
32	GGGATGTATTGAAGGAGGAT GATACCGGAAGACAGGAGGGGAAAGGAGA A GGGATGTATTGAAGGAGGAT
33	GGGATGTATTGAAGGAGGAT TATAACATGCTGGTAGGGCTACAATCACGG A GGGATGTATTGAAGGAGGAT
34	GGGATGTATTGAAGGAGGAT CCAAAGCACCAATGAAGACAAAAGAATG A GGGATGTATTGAAGGAGGAT
35	GGGATGTATTGAAGGAGGAT GAGATGCGTAGGTCAATTCAGGCAGAATTC A GGGATGTATTGAAGGAGGAT
36	GGGATGTATTGAAGGAGGAT CATAATTCCCAACAGGACGCTAGTGTAGAA A GGGATGTATTGAAGGAGGAT
37	GGGATGTATTGAAGGAGGAT ATGCAGTCCAAGCTGCAAGAATGTCTGGGC A GGGATGTATTGAAGGAGGAT
38	GGGATGTATTGAAGGAGGAT TAGATTAGAATAATCAATAAGCCTTGCAGA A GGGATGTATTGAAGGAGGAT
39	GGGATGTATTGAAGGAGGAT CTACACTGGAGGTGGACTCTCTCACGCATA A GGGATGTATTGAAGGAGGAT

40	GGGATGTATTGAAGGAGGAT GGCTGCTATATAGTTCCTCCTTTTCCAACC A GGGATGTATTGAAGGAGGAT
FISH probe number	MAP1B FISH probe Sequence
1	GGGATGTATTGAAGGAGGAT A AAGACCACTTCTTTCCAGTGCTGGAAAGAG A GGGATGTATTGAAGGAGGAT
2	GGGATGTATTGAAGGAGGAT A AGTGTAGGAAAAGCGTGTCTCTGAACTGCC A GGGATGTATTGAAGGAGGAT
3	GGGATGTATTGAAGGAGGAT A TCCAAACAAGTGCAGAGAAGCTGCCTATTT A GGGATGTATTGAAGGAGGAT
4	GGGATGTATTGAAGGAGGAT A AATCAACTTCATGAAGTCACAGATTTTTTA A GGGATGTATTGAAGGAGGAT
5	GGGATGTATTGAAGGAGGAT A TAGTTTTAATACCAGGTGAATAACCTAATT A GGGATGTATTGAAGGAGGAT
6	GGGATGTATTGAAGGAGGAT A TCAAAGAAATGCTCATCCCTAGGCTGCTTT A GGGATGTATTGAAGGAGGAT
7	GGGATGTATTGAAGGAGGAT A AAAGCTTACAGTTCCTTTCAAATGGAACA A GGGATGTATTGAAGGAGGAT
8	GGGATGTATTGAAGGAGGAT A CTAACCTACAATATCATTACTGAGCAGGAA A GGGATGTATTGAAGGAGGAT
9	GGGATGTATTGAAGGAGGAT A ATTCAGAATTGTAGAGCAGCTCCTAAGAGC A GGGATGTATTGAAGGAGGAT
10	GGGATGTATTGAAGGAGGAT A AATGAAAGGTGGTAAGATTTCCATTAGCAA A GGGATGTATTGAAGGAGGAT
11	GGGATGTATTGAAGGAGGAT A ATTAATGAGTATTGGAAAGCTCCTAGACT A GGGATGTATTGAAGGAGGAT
12	GGGATGTATTGAAGGAGGAT A TCCAGTCCCACCACAAGACTGAGAAAGCAT A GGGATGTATTGAAGGAGGAT
13	GGGATGTATTGAAGGAGGAT A TGAAAATGGAGGATCATCGCTAACATTTAG A GGGATGTATTGAAGGAGGAT
14	GGGATGTATTGAAGGAGGAT A AGGTCATGATCATGAGTGTATCTCGATAG A GGGATGTATTGAAGGAGGAT
15	GGGATGTATTGAAGGAGGAT A GCTCTCACCATGAATGTACATGGTACATTG A GGGATGTATTGAAGGAGGAT
16	GGGATGTATTGAAGGAGGAT A AAAATTAGGTTAGTCACACAGGCAGGAAAG A GGGATGTATTGAAGGAGGAT
17	GGGATGTATTGAAGGAGGAT A GGTTCCTTGGTATACTCAGGCTCTGTGGT A GGGATGTATTGAAGGAGGAT
18	GGGATGTATTGAAGGAGGAT A CTGTCAAAGAAAAATCAACCAGAGGTCTGG A GGGATGTATTGAAGGAGGAT
19	GGGATGTATTGAAGGAGGAT A CGCATTATGTAGACCAATTCAACTTAAGAG A GGGATGTATTGAAGGAGGAT
20	GGGATGTATTGAAGGAGGAT A TCCATCATGTGTTAATTTCTTGACCTTA A GGGATGTATTGAAGGAGGAT
21	GGGATGTATTGAAGGAGGAT A AAAATGTAATTCACAGCATTAAAGTAGACTG A GGGATGTATTGAAGGAGGAT
22	GGGATGTATTGAAGGAGGAT A TTAACCCCTCATCATAGTTAGCAGTGCAAA A GGGATGTATTGAAGGAGGAT
23	GGGATGTATTGAAGGAGGAT A AGGAAATGTAATGTGACAGAGCACAGCACA A GGGATGTATTGAAGGAGGAT
24	GGGATGTATTGAAGGAGGAT A CATTGATCTGCAACTTGAAACTTGATGTCA A GGGATGTATTGAAGGAGGAT
25	GGGATGTATTGAAGGAGGAT A TGACAATGATGGAAATTTCTCTAACTCT A GGGATGTATTGAAGGAGGAT
26	GGGATGTATTGAAGGAGGAT A TGTCAAGGCCCTGAAAGTAGCCTACCATG A GGGATGTATTGAAGGAGGAT
27	GGGATGTATTGAAGGAGGAT A AATCAAGGGGTGGGAGGTATCATTATTCCT A GGGATGTATTGAAGGAGGAT
28	GGGATGTATTGAAGGAGGAT A ATCAGACTTCAATCTTGCCAGAACTTCAAA A GGGATGTATTGAAGGAGGAT
29	GGGATGTATTGAAGGAGGAT A GCCATTTCACTCTTGAAGTGCAGTAGTAA A GGGATGTATTGAAGGAGGAT
30	GGGATGTATTGAAGGAGGAT A GCCACAGGTGCACTGAAGTGGGATTCAACA A GGGATGTATTGAAGGAGGAT
31	GGGATGTATTGAAGGAGGAT A TGTTTTATAAACTTGCTGTCTCACATTA A GGGATGTATTGAAGGAGGAT
32	GGGATGTATTGAAGGAGGAT A TTCCTAAGGCAAATTGTCTACCATATGTAC A GGGATGTATTGAAGGAGGAT
33	GGGATGTATTGAAGGAGGAT A GGAAGTGGGTGTTGCTGCATGCAGGTTAAT A GGGATGTATTGAAGGAGGAT
34	GGGATGTATTGAAGGAGGAT A AGCATGCCTTAGATCAATCTACTTGTGTGT A GGGATGTATTGAAGGAGGAT
35	GGGATGTATTGAAGGAGGAT A ATGGCCAGTCTACACTCACTACATTATGTC A GGGATGTATTGAAGGAGGAT
36	GGGATGTATTGAAGGAGGAT A GATGTGAAATATCACATGCCCTCATAACA A GGGATGTATTGAAGGAGGAT
37	GGGATGTATTGAAGGAGGAT A TAAAGAATGCCTACTGCCTGAGAAAATGCA A GGGATGTATTGAAGGAGGAT
38	GGGATGTATTGAAGGAGGAT A GTTGGCTAGTGCATGGTTTCAAATGTTCA A GGGATGTATTGAAGGAGGAT
39	GGGATGTATTGAAGGAGGAT A TTGAACCCATTGTGGAAATACTGTTATTT A GGGATGTATTGAAGGAGGAT
40	GGGATGTATTGAAGGAGGAT A CCTTGGTTTTTACAGTTCAATCTTGCATGC A GGGATGTATTGAAGGAGGAT
41	GGGATGTATTGAAGGAGGAT A TGCTGCTTGCTAAAACCATGATGTTGAGAT A GGGATGTATTGAAGGAGGAT

42	GGGATGTATTGAAGGAGGAT A TCATCACTTCTGAGTCATGAGTTGGGATCA A GGGATGTATTGAAGGAGGAT
43	GGGATGTATTGAAGGAGGAT A TCATTCCCCTCACCACGTAGTAGGAAGAC A GGGATGTATTGAAGGAGGAT
44	GGGATGTATTGAAGGAGGAT A TTA CTATTGCTGTGGTTAGGAATGTAGCAC A GGGATGTATTGAAGGAGGAT
SthCsm pre-crRNA FISH probe sequence	GGGATGTATTGAAGGAGGAT AA CCGTCCCCTCTCGAGGTAATTAGGTTTATATC AA GGGATGTATTGAAGGAGGAT
Readout probe sequence	ATTO590-ATCCTCCTTCAATACATCCC

Supplementary Table 4. qPCR primers.

RNA abundance measurement	
Primer name	Sequence
NOTCH2_3'UTR_F1	TATTTGGGAGGACACATTTATGTACCCAGAG
NOTCH2_3'UTR_R1	GGT TACTGGGTTTCTCATACAAACAGATATAATATCACTT
NOTCH2_3'UTR_F2	GCATCCTCTTATTGAATTTGCCAATTTGTAATTTTGC
NOTCH2_3'UTR_R2	GTCATCATACATTCAATGTATTGGTTAGGGCC
MAP1B_3'UTR_F1	TATGGTATTATGTCTTATAATCCTGCATCACTTCTATCCT
MAP1B_3'UTR_R1	CCTTTACATCAAATATCCTCAATGGAAGAGGGG
MAP1B_3'UTR_F2	AAAACAGGAGCCATGGAGAAGTGG
MAP1B_3'UTR_R2	AAGTGCTTCTCAGCTGGGCTCAAGA
NOTCH2_ORF_F1	ACAGTTGTGTCTGCTCACCAGGAT
NOTCH2_ORF_R1	GCGGAAACCATTACACCGTTGAT
NOTCH2_ORF_F2	AAAAATGGGGCCAACCGAGAC
NOTCH2_ORF_R2	TTCATCCAGAAGGCGCACAA
MAP1B_ORF_F1	TGGGACACAAACCTGATTGA
MAP1B_ORF_R1	AAACGTCACTTCGGTGATGA
MAP1B_ORF_F2	CAAGAGAGTGCGGTCTTCCTAC
MAP1B_ORF_R2	CTGAGTCATGAGTTGGGATCAG
GAPDH_F	CCAGAACATCATCCCTGCCTCTACTG
GAPDH_R	GGAAATGAGCTTGACAAAGTGGTCGTTG

RNA decay measurement	
Primer name	Sequence
NOTCH2_F	ACAGTTGTGTCTGCTCACCAGGAT
NOTCH2_R	GCGGAAACCATTACACCGTTGAT
MAP1B_F	TGGGACACAAACCTGATTGA
MAP1B_R	AAACGTCACTTCGGTGATGA
18S_F	CTTGGAGGGACAAGTGGCG
18S_R	ACGCTGAGCCAGTCAGTGTA