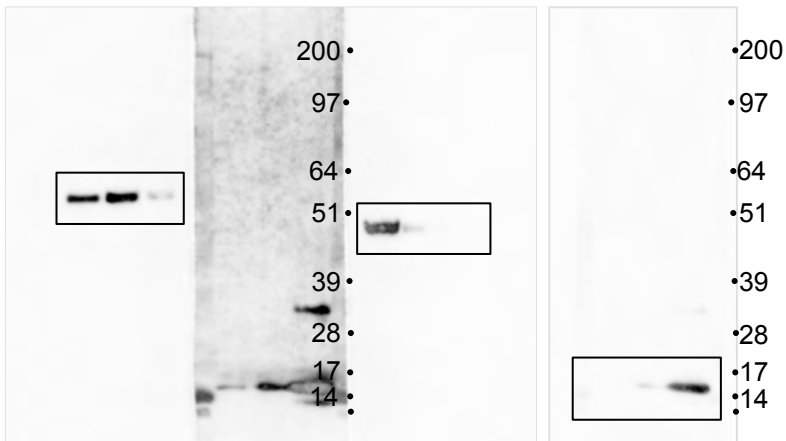
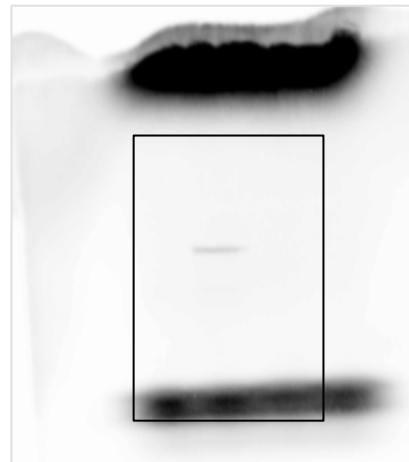


Supplementary Figure - Uncropped scans with size marker indications

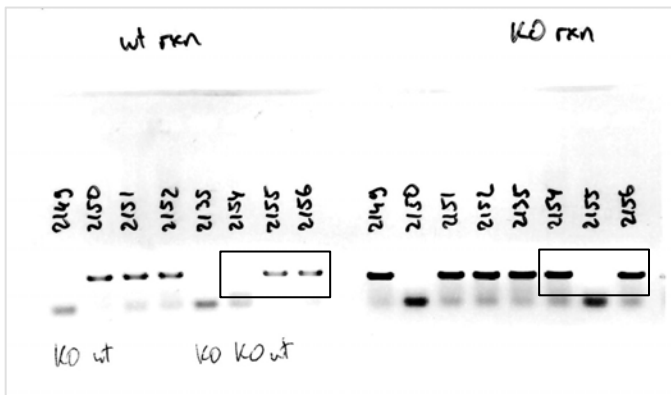
Fig4a



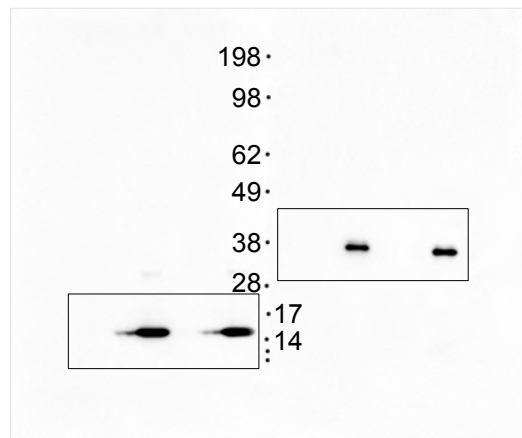
Ext. Data 3j



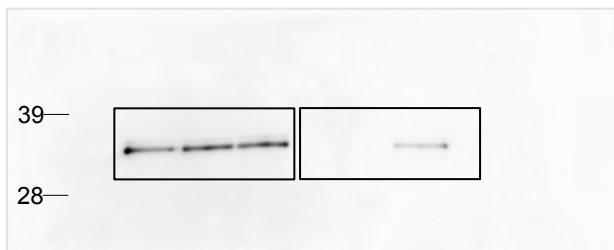
Ext. Data 6c



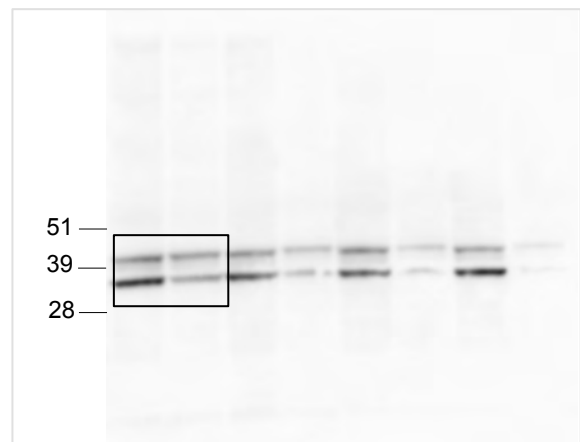
Ext. Data 7b



Ext. Data 7c



Ext. Data 7f



Chirp Probe Sets

LacZ probe set 1 (5'→3')
CCAGTGAATCCGTAATCATG
AATGTGAGCGAGTAACAACC
AATTCAGACGGCAAACGACT
GCTGATTTGTGTAGTCGGTT
TTTCGACGTTTCAGACGTAGT
TTCATCAGCAGGATATCCTG
AGACGATTCATTGGCACCAT
TTTGATGGACCATTTTCGGCA
ATACAGAACTGGCGATCGTT
TTTACCTTGTGGAGCGACAT
TGTGAAAGAAAGCCTGACTG

LacZ probe set 2 (5'→3')
ATTAAGTTGGGTAACGCCAG
AATAATTCGCGTCTGGCCTT
ATCTTCCAGATAACTGCCGT
AACTGTTACCCGTAGGTAGT
ACCATTTTCAATCCGCACCT
TGGTTCGGATAATGCGAACA
ATTTGATCCAGCGATACAGC
AAACGGGGATACTGACGAAA
TATTCGCTGGTCACTTCGAT
AAATCCATTTTCGCTGGTGGT
TACGCCAATGTCGTTATCCA

LeXis probe set 1 (5'→3')
TAGCTTCTCGCTCGAATGTG
CTAGTTGTTAGATCCGGCTC
AGCATTGTCCAAC TTCAGAG
AGTTTCC TAGAGCAAAGCC
ATGGGAACCACCAGGGAACG
TTCC TCATCTTCATAAGGGA
TTGTGCTAGATTCAGCATGT
GCTTGTGATTAGCTCAGTAT
CCGATAATTCAAGGACTCCA
CACAACAATGGAGTGGCCAA
GGCAAGATGCTATTGAAGCA

LeXis probe set 2 (5'→3')
AACTGGAGTGTTGTTTGCAC
CGGTAGGTAGGGGCTTGAAC
TATTCTGTTTGCACCTGTTG
AAGGCAAAGCCTAGCAATGG
CTTCCATCATTGGTTCTCTC
GGTGTATCTGTATTTCTCC
CATTGGTCAAATGCGTTCTC
GGTTGAGCAGGTTTTTCTAA
CTGGGGAACTGTGGAAGTAT
TTGGTTTGAGAGGTGTCATC
AATTGTCTTTGCTTTTGTCC

Chip Primers

Gene	Forward (5'→3')	Reverse (5'→3')
Abca1	GGGGAAAGAGGGAGAGAACAG	GAATTACTGGTTTTTGGCCG
LeXis	GCACAAGACTCGAGAGGGTCA	AAGAAGATGGCTGCCTGGAAC
Mapk1	GGGCTACACAGAGGAGAAGG	GCTCTGGTAGGGGTGTGATT
Sreb2	GGCGTTCTGGAGACCAT	CACTCACCGTCGATGTCC
Hmcr	CATCTCTCACCACGGCAGA	CAGGTCAAACCTCTGAGTTCC
Cyp51	GACCTGAGGAAGCAGGCTC	ACCAATCTGGTCTGAGATC
Fdps	AGACCACTACCACTCCGG	GTCTACAGTGAGAGTTCC

Probes for single molecule RNA FISH

LeXis (5'→3')

AACTGGAGTGTTGTTTGCAC
CGGTAGGTAGGGGCTTGAAC
TATTCTGTTTGCACCTGTTG
CCTCGTATGTAGTTTCTAG
GCAAAGCCTAGCAATGGATA
AGAGCCATCCAAGTATCTCT
GTCTTGACTTGCTTTTCTCTT
AATGGGAACCACCAGGGAAC
TTCCTCATCTTCATAAGGGA
TTCAGCATGTCCTTTAAGGT
CCAGTAAGTGATGGTAGAGG
TGCTTGATGATTAGCTCAGTA
CAGGTTTTTCTAAGCAGCTT
GGAAGTATCCTCCGATAATT
CACAACAATGGAGTGGCCAA
GTTTGTATTTTCTTGTGGT
AATTGTCTTTGCTTTTGTCC
TCATTTTTACAGCTCACTGA

LeXis (5'→3')

TAGCTTCTCGCTCGAATGTG
CTAGTTGTTAGATCCGGCTC
AGCATTGTCCAACCTCAGAG
GACAAAGCCCGGTCAAACAG
CACTCTTAATAGCATTTCCA
AGTTCATGAGTGGGCAGGAA
CTTTTCTTTTGCCTTTTATA
TTGCATGTGTGTGCCAACTC
CTTCCATCATTGGTTCTCTC
TTATCTGTATTTCTCCCTGG
CTTCCAATCCATTGTGCTAG
CTCATTGGTCAAATGCGTTC
TTCTTCTCCAGGAATGTCTA
AGGACTCCATAATAGGTTGA
TCACTGGACCTGGGGAACCTG
GAGAGGTGTCATCATTCTGA
GGCAAGATGCTATTGAAGCA

Knockdown RNA Sequences

sh	Primers
LeXis1	5' - CACCGGTCTCTGAAGTTGGACAATGCGAACATTGTCCAACCTTCAGAGACC -3' 5' - AAAAGGTCTCTGAAGTTGGACAATGTTTCGCATTGTCCAACCTTCAGAGACC -3'
LeXis8	5' - CACCGAGAGAACCAATGATGGAAGGCGAACCTTCCATCATTGGTTCTCTC -3' 5' - AAAAGAGAGAACCAATGATGGAAGGTTTCGCCTTCCATCATTGGTTCTCTC -3'
Raly	5' - CACCGCAATGTTGGTGGTGGCAGCACGAATGCTGCCACCACCAACATTGC -3' 5' - AAAAGCAATGTTGGTGGTGGCAGCATTTCGTGCTGCCACCACCAACATTGC -3'

ASO	Sequence
LeXis1	AAGTTCTTTACCTCTG
LeXis2	CAATAGTTTTGACTCT
LeXis3	CAGTTAGGGAATGCGG