

Table S1. Oligonucleotide pairs used for generation of the LUMA constructs and the miRNA construct.

LUMA (1-200)	forward reverse	5'-ATTCCTCTAGAATGGCAGCGAACTATTCCAG 5'-ATTCCAAGCTTCAATCTTGTCAATGAGGCCTG
LUMA (1-309)	forward reverse	5'-ATTCCTCTAGAATGGCAGCGAACTATTCCAG 5'-ATTCCAAGCTTCCCATGTCTTCATGGAATTGC
LUMA (53-200)	forward reverse	5'-ATTCCTCTAGAATGAACGAGGGCCGAGCACTG 5'-ATTCCAAGCTTCAATCTTGTCAATGAGGCCTG
LUMA (53-309) (SP 53-309 precursor)	forward reverse	5'-ATTCCTCTAGAATGAACGAGGGCCGAGCACTG 5'-ATTCCAAGCTTCCCATGTCTTCATGGAATTGC
LUMA (53-345)	forward reverse	5'-ATTCCTCTAGAATGAACGAGGGCCGAGCACTG 5'-ATTCCAAGCTTCGTTGACAAGGTCTCGGAAG
LUMAgal (LUMA 1-165)	forward reverse	5'-ATTCCTCTAGAATGGCAGCGAACTATTCCAG 5'-ATTCCCTGCAGGCCCTCGTTGGTGAAAATTAAG
LUMAgal (LUMA 306-400)	forward reverse	5'-ATTCCCCTATGGATGAAGACATGGGGCCTGC 5'-ATTCCAAGCTTCCTCCAGCTTTTTGGCTGG
LUMAgal (β -D-galactosidase domain 3)	forward reverse	5'-ATTCCCTGCAGGAGGTGCGGATTGAAAATGG 5'-ATTCCCCTATGGCCCGGATAAACGGACCTGG
Signal peptide	forward1 forward2 reverse1 reverse2	5'-CTAGCGCCACCATGGCTACTGGCTCCAGAACTTCTTT GCTGCTTGCTTTC 5'-GGCTTGTTGTGTTTGCCTTGGTTGCAGGAAGGATCTG CTTCCCAACTGCTAGCT 5'-CTAGAGCTAGCAGTTGGGAAAGCAGATCCTTCCTGC AACCAAGGCAA 5'-ACACAACAAGCCGAAAGCAAGCAGCAAAGAAGTTCT GGAGCCAGTAGCCATGGTGGCG
LUMA 53-309 (for antibody production)	forward reverse	5'-ATTCCGGTACCATGAACGAGGGCCGAGCACTG 5'-ATTCCGAATTCCCCTTGACAAGGTCTCGGAAG
hLUMA 1-400	forward reverse	5'-ATGGCCGCGAATTATTCCAGTACCAGTACC 5'-CCAGTCCACCAAGGTGTAGAGGATCCGTGT
Hmi48	forward reverse	5'-TGCTGATAAGGTTGAGGCCCATGAACGTTTTGGCCAC TGACTGACGTTTCATGGCTCAACCTTAT 5'-CCTGATAAGGTTGAGCCATGAACGTCAGTCAGTGGC CAAACGTTTCATGGGCCTCAACCTTATC