

Product datasheet for **KN212708**

Matriptase 2 (TMPRSS6) Human Gene Knockout Kit (CRISPR)

Product data:

Product Type: Knockout Kits (CRISPR)
Format: 2 gRNA vectors, 1 GFP-puro donor, 1 scramble control
Donor DNA: GFP-puro
Symbol: Matriptase 2
Locus ID: 164656
Components: **KN212708G1**, Matriptase 2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GAGGCTCCCTTGCAAATGCG
KN212708G2, Matriptase 2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CACCGGTGGGGCACGGAAGC
KN212708D, donor DNA containing left and right homologous arms and GFP-puro functional cassette.

Homologous arm and GFP-puro sequences:

pUC vector backbone in gray; Left arm sequence in blue; GFP-puro in green; Right arm in violet

```
CAGGTGAAGT ACCCACGTGG TGTGGGCTGG AGGAAGAAAA CATGGGACAA TGGTTCCACA TCCCTGGGTG
ACCTGAAAAT TAAGTGTGAG ATGTCTCATG AGGGCACGAA ATGAATATTA GTTTTTGTTC CCTTCCTCTG
CCACAAGACT TTGAGAGCAG AAAGGTGAGA GAGACGGTAC TCTGTGAAGG AAGGCAGGTC CCCGGCCCCG
CGCAGTGCCA GCTCAGGGGA TTCTGGGGCG GGGGCTAAGT GCATGGACTG TGTGGGCGTG GTGGGAAGCT
CCGTGAACCA GAACCAAGGAG CAAGAAACAG CATTCTTGC GTGGACGGGA AATGAGGGCA AGAGGTCAGA
TGTCTACAGA AGTCTGCACC CCATGTACTT CAGTTCTGTC TGTGGGTGCA GCCTCTAGGG AGGTGGGTGT
TTAGGTAAGT AGACCTCCGT CTGTCCTCTG ACCATAGGGA AGCCAGTGGG AAGCAAAGGT GGGGTTCTTG
AGCCAGACCC AGTCCAGCTC TGGTGCCTGC CCTCTGGTGC GAGCTGACCT GAGATGCACT TCCCTCCTCT
GTGAGCTGTC TCGGCACCCA CTTGCAGTCA CTGCCGCTG CCGTGGCCGA GGCCCCCAGG GTGGCTGGCG
GGCAGGGGGA CGGAGGTGAT GGCAGGAAG CGGAGCCGGA GGGGATGTTC AAGGCCTGTG AGGACTCCAA
GAGAAAAGCC CGGGGCTACC TCCGCCTGGT GCCCCTGTTT GTGCTGCTGG CCCTGCTCGT GCTGGCTTCG
GCGGGGGTGC TACTCTGGTA TTTCTAGGT AACGTTGTGG GACCGCCTGG GAGAGGCACC TGGGGAGGAC
TTGGGGTGAC TGTAGCAGC ACAGCAGGAC AGGACTGGT TCCAGGCTCA GCCGTGCTTA GCATATTGCT
GTGTGACCTT GGGCAAGTCA CTCTGTCTC CTGGGTCTCC CTCCCTGTCC TTCCAGCTGG AGATGCTGTC
AGACCCTGGC TCCAGGTCTT ATGGCTCGGG TCTGCTTCTT GCTTGGGCAA AGTGCCCCAA AGCTCCCCAC
CAGGTGGGGA AAGTGGGCC TCTAGCACC CAGTTCTTGT GAGCCAGCCA GCCCAGAGAG CATAAACATC
GCCTTCCCTT GCCTGCAGTC CTCCTGGGTT GCCCCTGAGG CTTGGAGCCA ACCCAGCCCT AAAGAAGGAG
GCCAGAGGC
```

GE100003, scramble sequence in pCas-Guide vector



[View online »](#)

Disclaimer: These products are manufactured and supplied by OriGene under license from ERS. The kit is designed based on the best knowledge of CRISPR technology. The system has been functionally validated for knocking-in the cassette downstream the native promoter. The efficiency of the knock-out varies due to the nature of the biology and the complexity of the experimental process.

RefSeq: [NM_001289000](#), [NM_001289001](#), [NM_153019](#), [NM_153609](#)

UniProt ID: [Q8IU80](#)

Synonyms: IRIDA

Summary: The protein encoded by this gene is a type II transmembrane serine proteinase that is found attached to the cell surface. The encoded protein may be involved in matrix remodeling processes in the liver. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]

Product images:

