

Product datasheet for **SC306623**

Matriptase 2 (TMPRSS6) (NM_153609) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Matriptase 2 (TMPRSS6) (NM_153609) Human Untagged Clone
Tag:	Tag Free
Symbol:	Matriptase 2
Synonyms:	IRIDA; MT2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF sequence for NM_153609 edited
 ATGTTGTTACTCTTCCACTCCAAAAGGATGCCCGTGGCCGAGGCCCCAGGTGGCTGGC
 GGGCAGGGGGACGGAGGTGATGGCGAGGAAGCGGAGCCGGAGGGGATGTTCAAGGCCTGT
 GAGGACTCCAAGAGAAAAGCCGGGGTACCTCCGCTGGTGCCCTGTTTGTGTGCTG
 GCCCTGCTCGTGGCTTCGGCGGGGTGCTACTCTGGTATTTCTAGGGTACAAGGCG
 GAGGTGATGGTCAGCCAGGTGACTCAGGCAGTCTGCGTGTACTCAATCGCCACTTCTCC
 CAGGACTTACC CGCGGAATCTAGTGCCTTCCGCACTGAAACCGCCAAAGCCCAGAAG
 ATGCTCAAGGAGCTCATACCAGCACCCGCTGGGAACCTACTACAACCTCAGCTCCGTC
 TATTCCTTTGGGAGGGACCCCTCACCTGCTTCTTCTGTTTATTCTCCAAATCCCCGAG
 CACCGCCGGCTGATGCTGAGCCCCGAGGTGGTGCAGGCACTGCTGGTGGAGGAGCTGCTG
 TCCACAGTCAACAGCTCGGCTGCCGTCCCCTACAGGGCCGAGTACGAAGTGGACCCGAG
 GGCCTAGTGATCCTGGAAGCCAGTGTGAAAGACATAGTGCATTGAATCCACGCTGGGT
 TGTTACCCTACAGCTACGTGGCCAGGGCCAGTCTCCGGCTGAAGGGGCTGACCAC
 CTGGCCTCCAGCTGCCTGTGGCACCTGCAGGGCCCGAGGACCTCATGCTCAAATCCGG
 CTGGAGTGGACGCTGGCAGAGTCCGGGACCGACTGGCCATGTATGACGTGGCCGGGCC
 CTGGAGAAGAGGCTCATACCTCGGTGTACGGCTGCAGCCGCCAGGAGCCCGTGGTGGAG
 GTTCTGGCGTCCGGGGCCATCATGGCGGTGCTGGAAGAAGGGCCTGCACAGCTACTAC
 GACCCCTTCGTGCTCTCCGTGCAGCCGGTGGTCTTCCAGGCCTGTGAAGTGAACCTGACG
 CTGGACAACAGGCTCGACTCCCAGGGCTCCTCAGCACCCCGTACTTCCCAGCTACTAC
 TCACCCCAAACCCACTGCTCCTGGCACCTACGGTGCCTCTCTGGACTACGGCTTGGCC
 CTCTGGTTTGTATGCCTATGCACTGAGGAGGCAGAAGTATGATTTGCCGTGACCCAGGGC
 CAGTGGACGATCCAGAACAGGAGGCTGTGTGGCTTGCATCCTGCAGCCCTACGCCGAG
 AGGATCCCCGTTGGTGGCCACGGCCGGATCACCATCAACTTCACTCCCAGATCTCCCT
 ACCGGGCCCGTGTGGCGGTGCACTATGGCTTGTACAACAGTCCGACCCCTGCCCTGGA
 GAGTTCCTCTGTTCTGTGAATGGACTCTGTGTCCTGCCTGTGATGGGGTCAAGGACTGC
 CCCAACGGCCTGGATGAGAGAACTGCGTTTGCAGAGCCACATCCAGTGCAAAGAGGAC
 AGCACATGCATCTCACTGCCAAGGTCTGTGATGGGCAGCCTGATTGTCTCAACGGCAGC
 GATGAAGAGCAGTGCCAGGAAGGGTGCCATGTGGGACATTCACCTTCCAGTGTGAGGAC
 CGGAGCTGCGTGAAGAAGCCCAACCCGAGTGTGATGGGCGGCCGACTGCAGGGACGGC
 TCGGATGAGGAGCACTGTACTGTGGCCTCCAGGGCCCTCCAGCCGATTGTTGGTGA
 GCTGTGCTCCTCCGAGGTGAGTGGCCATGGCAGGCCAGCCTCCAGTTCCGGGTGCACAC
 ATCTGTGGGGGGCCCTCATCGCTGACCCTGGGTGATAACAGCTGCCCACTGCTTCCAG
 GAGGACAGCATGGCTCCACGGTGTGTGGACCGTGTTCCTGGGCAAGGTGTGGCAGAAC
 TCGCGCTGGCCTGGAGAGGTGTCTTCAAGGTGAGCCGCCTGCTCCTGCACCCGTACCAC
 GAAGAGGACAGCCATGACTACGACGTGGCGCTGCTGCAGCTCGACCACCCGGTGGTGCGC
 TCGGCCCGCTGCGCCCCGTCTGCCTGCCCGCGCGCTCCCACTTCTTCGAGCCCGGCTG
 CACTGTGGATTACGGGCTGGGGCGCCTTGCGCGAGGGCGGCCCATCAGCAACGCTCTG
 CAGAAAAGTGGATGTGCAATTGATCCCACAGGACCTGTGCAGCGAGGTCTATCGTACCAG
 GTGACGCCACGCATGCTGTGTGCCGGTACC GCAAGGGCAAGAAGGATGCCTGTGAGGGT
 GACTCAGGTGGTCCGCTGGTGTGCAAGGCACTCAGTGGCCGCTGTTTCTGGCGGGGCTG
 GTCAGCTGGGGCCTGGGCTGTGGCCGGCCTAACTACTTCGGCGTCTACACCCGCATCACA
 GGTGTGATCAGCTGGATCCAGCAAGTGGTGACCTGA

Restriction Sites: Please inquire
ACCN: NM_153609
Insert Size: 2800 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This clone has been fully sequenced and found four SNPs within the protein associated with this reference, NM_153609.2:At position 213, a G to A change results in no amino acid change.At position 871, a A to G change results in a K to E change.At position 1197, a G to A change results in no amino acid change.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_153609.2 , NP_705837.1
RefSeq Size:	3212 bp
RefSeq ORF:	2436 bp
Locus ID:	164656
UniProt ID:	Q8IU80
Cytogenetics:	22q12.3
Protein Families:	Druggable Genome, Protease, Transmembrane
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) contains a distinct 5' UTR, initiates translation at an alternate start codon, and lacks an exon in the 3' CDS, compared to variant 1. The resulting isoform (2) is shorter than isoform 1.</p>