

Product datasheet for **SC303241**

Enterokinase (TMPRSS15) (NM_002772) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Enterokinase (TMPRSS15) (NM_002772) Human Untagged Clone
Tag:	Tag Free
Symbol:	Enterokinase
Synonyms:	ENTK; PRSS7
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_002772 edited
GCAAGCCTTCAAACCAAAAATGGGGTCGAAAAGAGGCATATCTTCTAGGCATCATTCTC
TCAGCTCCTATGAAATCATGTTTGCAGCTCTCTTGGCCATATTGGTAGTGTCTGTGCTG
GATTAATTGCAGTATCCTGCCTGACAATCAAGGAATCCCAACGAGGTGCAGCACTTGGAC
AGAGTCATGAAGCCAGAGCGACATTTAAAATAACATCCGGAGTTACATATAATCCTAATT
TGCAAGACAAACTCTCAGTGGATTTCAAAGTTCTTGCTTTGACCTTCAGCAAATGATAG
ATGAGATCTTTCTATCAAGCAATCTGAAGAATGAATATAAGAAGTCAAGAGTTTTACAAT
TTGAAAATGGCAGCATTATAGTCGTATTTGACCTTTTCTTTGCCAGTGGGTGTCAGATC
AAAATGTAAAAGAAGAACTGATTCAGGCCTTGAAGCAAATAAATCCAGCCAAGTGGTCA
CTTTCCATATTGATTTGAACAGCGTTGATATCCTAGACAAGCTAACACCACAGTCATC
TGGCAACTCCAGGAAATGTCTCAATAGAGTGCCTGCCTGGTTCAAGTCTTGTACTGATG
CTCTAACGTGTATAAAAGCTGATTTATTTTGTGATGGAGAAGTAAACTGTCCAGATGGTT
CTGACGAAGACAATAAAATGTGTGCCACAGTTTGTGATGGAAAGATTTTGTAACTGGAT
CATCTGGGTCTTTCCAGGCTACTCATTATCCAAAACCTTCTGAAACAAGTGTGTCTGCC
AGTGGATCATACGTGTAACCAAGGACTTTCCATTAAACTGAGCTTCGATGATTTAATA
CATATTACAGATATATTAGATATTTATGAAGGTGTAGGATCAAGCAAGATTTAAGAG
CTTCTATTTGGGAACTAATCCTGGCACAATAAGAATTTTTCCAACCAAGTACTGCCA
CCTTTCTATAGAATCTGATGAAAGTGAATGTTGGCTTTAATGCAACATATACTGCAT
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GTTTCTGGGTCCAGGATCTAAATGATGATAATGAATGGGAAAGGATTCAGGGAAGCACCT
TTTCTCCTTTTACTGGACCAATTTTGACCACACTTTTGGCAATGCTTCAGGATTTTACA
TTTCTACCCCAACTGGACCAGGAGGAGACAAGAACGAGTGGGGCTTTTAAGCCTCCCTT
TGGACCCCACTTTGGAGCCAGCTTGCCTTAGTTTCTGGTATCATATGTATGGTGAATAATG
TCCATAAATTAAGCATTAAATATCAGCAATGACCAAAATATGGAGAAGACAGTTTTCCAAA
AGGAAGGAAATATGGAGACAATTGGAATTATGGACAAGTAACCCATAATGAAACAGTTA
AATTTAAGGTTGCTTTTAAATGCTTTTAAAAACAAGATCCTGAGTGATATTGCATTGGATG
ACATTAGCCTAACATATGGGATTTGCAATGGGAGTCTTTATCCAGAACCAACTTTGGTGC



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CAACTCCTCCACCAGAACTTCTACGGACTGTGGAGGACCTTTTGAGCTGTGGGAGCCAA
 ATACAACATTCAGTTCTACGAACTTTCCAAACAGCTACCCTAATCTGGCTTTCTGTGTT
 GGATTTTAAATGCACAAAAAGGAAAGAATATACAACTTCATTTTCAAGAAATTTGACTTAG
 AAAATATTAACGATGTAGTTGAAATAAGAGATGGTGAAGAAGCTGATTCCTTGCTCTTAG
 CTGTGTACACAGGGCCTGGCCAGTAAAGGATGTGTTCTCTACCACCAACAGAATGACTG
 TGCTTCTCATCTAACAAGATGTGTTGGCAAGAGGAGGGTTAAAGCAAACCTTACTACTG
 GCTATCACTTGGGGATTCCAGAGCCATGCAAGGCAGACCATTTTCAATGTAAAAATGGAG
 AGTGTGTTCCACTGGTGAATCTCTGTGACGGTCATCTGCACTGTGAGGATGGCTCAGATG
 AAGCAGATTGTGTGCGTTTTTTCAATGGCACAACGAACAACAATGGTTTGTGCGTTTCA
 GAATCCAGAGCATATGGCATACAGCTTGTGCTGAGAACTGGACCACCCAGATTTCAAATG
 ATGTTTGTCAACTGCTGGGACTAGGGAGTGAAACTCATCAAAGCCAATCTTCTTACCG
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 GTCAACAGTGTACAGGATTCCTTGATTCGGTTACAGTGAACCATAAATCTTGTGGAA
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 GGGCCTGGCCCTGGGTTGTGGTCTGTATTATGGCGGCCGACTGCTCTGCGGCGCATCTC
 TCGTCAGCAGTACTGGCTGGTGTCCGCCGACACTGCGTGTATGGGAGAACTTAGAGC
 CATCCAAGTGGACAGCAATCCTAGGCCTGCATATGAAATCAAATCTGACCTCTCCTCAA
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 ACAACGACATTGCCATGATGCATCTGGAATTTAAAGTGAATTACACAGATTACATACAAC
 CTATTTGTTTACCGAAGAAAATCAAGTTTTCTCCAGGAAGAAATGTTCTATTGCTG
 GTTGGGGACGGTGTATATCAAGTACTACTGCAAACATATTGCAAGAAGCTGATGTTCT
 CTCTTCTATCAAATGAGAGATGCCAACAGCAGATGCCAGAATATAACATTACTGAAAATA
 TGATATGTGCAGGCTATGAAGAAGGAGGAATAGATTCTTGTGAGGGGATTTCAGGAGGAC
 CATTAAATGTGCCAAGAAAACAACAGGTGTTCTTGTGCTGGTGTGACCTCATTGGATACA
 AGTGTGCCCTGCCTAATCGCCCCGAGTGTATGCCAGGTCTCAAGGTTTACCGAATGGA
 TACAAAGTTTTCTACATTAGCGCATTTCTTAAACTAAACAGGAAAGTCGCATTATTTTCC
 CATTCTACTCTAGAAAGCATGGAATTAAGTGTTCGTACAAAAATTTAAAAAGTTACC
 AAAGGTTTTTATTCTTACCTATGTCAATGAAATGCTAGGGGGCCAGGGAAC

- Restriction Sites:** Please inquire
- ACCN:** NM_002772
- Insert Size:** 3200 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:** The ORF of this clone has been fully sequenced and found to be a perfect match to NM_002772.1.
- 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:**
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_002772.1](#), [NP_002763.1](#)

RefSeq Size: 3696 bp

RefSeq ORF: 3060 bp

Locus ID: 5651

UniProt ID: [P98073](#)

Cytogenetics: 21q21.1

Protein Families: Druggable Genome, Transmembrane

Gene Summary: This gene encodes an enzyme that converts the pancreatic proenzyme trypsinogen to trypsin, which activates other proenzymes including chymotrypsinogen and procarboxypeptidases. The precursor protein is cleaved into two chains that form a heterodimer linked by a disulfide bond. This protein is a member of the trypsin family of peptidases. Mutations in this gene cause enterokinase deficiency, a malabsorption disorder characterized by diarrhea and failure to thrive. [provided by RefSeq, Jul 2008]