

Product datasheet for SC117590

STOM (NM_004099) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: STOM (NM_004099) Human Untagged Clone
Tag: Tag Free
Symbol: STOM
Synonyms: BND7; EPB7; EPB72
Mammalian Cell Selection: None
Vector: pCMV6-XL5
E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_004099 edited
 GAATTCGGCACGAGGGTTTGGCAACGAGGACGGGGGAGTGCCTCTCGGGCAGCA
 TGGCCGAGAAGCGGCACACACGGGACTCCGAAGCCAGCGGCTCCCCGACTCCTTCAAGG
 ACAGCCCCAGTAAGGGCCTTGGACCTTGC GGATGGATTTTGGTGGCGTTCTCATTCTTAT
 TCACCGTTATAACTTTCCCAATCTCAATATGGATGTGCATAAAGATTATAAAGAGTATG
 AAAGAGCCATCATCTTTAGATTGGTTCGATTTTACAAGGAGGAGCCAAAGGACCTGGTT
 TGTTTTTTATTCTGCCATGCACTGACAGCTTCATCAAAGTGGACATGAGAACTATTTTAT
 TTGATATTCCTCCTCAGGAGATCCTCACAAGGATTCAGTGACAATTAGCGTGGATGGTG
 TGGTCTATTACCGCTTCAGAATGCAACCCTGGCTGTGGCAAATATCACCAACGCTGACT
 CAGCAACCCGTCTTTTGGCACAACACTCTGAGGAATGTTCTGGGCACCAAGAATCTTT
 CTCAGATCCTCTCTGACAGAGAAGAAATGCACACAACATGCAGTCTACTCTGGATGATG
 CCACTGATGCCTGGGGAATAAAGGTGGAGCGTGTGGAATAAAGGATGTGAAACTACCTG
 TGCAGCTCCAGAGAGCTATGGCTGCAGAAGCAGAAGCGTCCC CGGAGGCCCGCGCAAGG
 TTATTGCAGCCGAAGGAGAAATGAATGCATCCAGGGCTCTGAAAGAAGCCTCCATGGTCA
 TCACTGAATCTCCTGCAGCCCTCAGCTCCGATACCTGCAGACTGACCACCATTGCTG
 CTGAGAAAACTCAACAATTGCTTCCCTCTGCCATAGATATGCTGCAAGGAATCATAG
 GGGCAAAACACAGCCATCTAGGCTAGTGTAGAGATGAGCGCTAGCCTTCCAAGCATGAAG
 TCGGGGACCAAATTAGCCTTTAACTCATAAAGAGAGGGTAGGGCTTTTCTTTTCCATAT
 GTCAATTGTGGTGTCCAGAATGTATAGCAGTTATAAAAAATAGTGAAAGAATTGTTAG
 CTTGTAATAACTGAGAGATTGGTGATTTATATAAGGTAATCTGTTAGTCTTAAAAATAGTT
 AAAAGTTTGTATTTTATGATTATTATGTAGTAGTTAGATCCCTCTTGTGTTTACTTCCA
 CTGACTCATTCTGAACCCCTAAGCACCCAXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
 XXXXXXXXXXXXAGTGCTTTTCTCACTGTTGCCTATTTTTCATATATCAGGTTTTAAATA
 GTTTTAATTTTTAATAAAATTTCTCTACGTTCTAAAAAAAAAAAAAAAAAACTCGAC



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_004099 unedited TACGACTCACTATAGGGCGGCCGAATTCGGCACGAGGGTTGGCAACGAGGACGGGG AGTGCGACTGCGTCTCGGGCAGCATGGCCGAGAAGCGGCACACACGGGACTCCGAAGCCC AGCGGCTCCCCGACTCCTTCAAGGACAGCCCCAGTAAGGGCCTTGGACCTTGGGATGGA TTTTGGTGGCGTTCTCATTCTTATTACCGTTATAACTTTCCCAATCTCAATATGGATGT GCATAAAGATTATAAAAGAGTATGAAAGAGCCATCATCTTTAGATTGGGTCGATTTTAC AAGGAGGAGCCAAGGACCTGGTTTGTTTTTTATTCTGCCATGCACTGACAGCTTCATCA AAGTGGACATGAGAACTATTTTCATTTGATATTCCTCCTCAGGAGATCCTCACAAAGGATT CAGTGACAATTAGCGTGGATGGTGTGGTCTATTACCGCGTTCAGAATGCAACCCTGGCTG TGGCAATATACCAACGCTGACTCAGCAACCCGCTTTTTGGCACAACTACTCTGAGGA ATGTTCTGGGCACCAAGAATCTTCTCAGATCCTCTGTACAGAGAAGAAATGCACACA ACATGCAGTCTACTCTGGATGATGCCACTGATGCCTGNGGAATAANAGGTGGAGCGTGTG GAAATTAAGGATGTGAACTACCTGTGCAGCTCCAGAGAGCTATGGTGCAGAAGCAGAG CGTCCCAGGAGGCCCGCAANGTTATTGCAGCCGAANGAGAATGAATGCATCCAGNGCT CTGAAAGAGCCTNCATGGTCATCACTGAATCTCTGCAGCCCTTCAGCTCCGATACCTGCA GACTGACCACCATTTGCTGCTGAGAAAACTCAATNGNCTTCCCTCTGCCCATAGAA TGCTGCAAGGAATATANGGGCAAACACCAGCATCTAGGCTATGTANAGATGAACGCTAGC TTCAANCATGAGTCGGGACCAATACCC</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_004099 unedited GACCGCGGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTAGAACGTAGAGAAAA TTTTATTAATAAAATTAATAACTATTTAAACCTGATATATGAAAAATAGGCAACAGTGAGAA AAAAGCACTTTTGTGACAAATATTTAGCTGGTTTAAAAGACAGAAACAAGGAGGAATCATT TACTCATAAAGAAGGCTCAAATAAGTTAAACATGGATGTATTTTTAAAATGACCACTCT AGTAGTGAATTTAAAAGTCTTTTAAAGGGTTAGAGTAATCTTTTTTCATTAGTCTTGGCTAT TTCTCTAGTTCTGACAAGTACAGGCAAGAAAATGGCTACTCTCAAGTAAGGATTATTCT GAAACACGGTCTGGATTTAGAAAATAAATGAACATTAGGGAAATTTCTTAATTAAGACT CTCAAACAGGTGTGGTAGCTCATGCCTGTAATCCCAGCACTTTGGGAGGCAGAGGTGG GTGGATCACCTGAGGTTAGGAGTTCGTGACTAGCCTGGCCAACATGGTGAACCCCGTCT CTACTAAAAACAATAATAATAACAAAAATTAGCTGGGCATGGTGGCATGAGCCTGTA ATCCCAGCTACTGGGAGGCTGAGGCAGGAGAATCTTTGAACCCAGGAGGCGGAGGTTG CAGTGAGCCGAGATCATGCTATTGCACTCCAGCCTGNGCAACAAGAGTGAACCTCATCT CAGAAAAAAGAAAAAAGACTCTCTGGAGGTAAGGCACATATGACCTGNAGAAGNCTGN TGTGGTGAAGGTCATCACTTTCTGCNAACATTTACCAGTNCAGCGTGTGAGGTGGCAGT TACAGCCCAGTTCTTTGCTCTGGCCCTGGTGCTTANGGGGGTTCAAATGAGTCANTGGA AGTCAAACAGGAAGGATCTACCTACTACANTATATCTAAAATACCAACTTTTACTATTN</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_004099
Insert Size:	2140 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).
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_004099.4](#), [NP_004090.4](#)

RefSeq Size: 3108 bp

RefSeq ORF: 867 bp

Locus ID: 2040

UniProt ID: [P27105](#)

Cytogenetics: 9q33.2

Domains: Band_7

Protein Families: Transmembrane

Gene Summary: This gene encodes a member of a highly conserved family of integral membrane proteins. The encoded protein localizes to the cell membrane of red blood cells and other cell types, where it may regulate ion channels and transporters. Loss of localization of the encoded protein is associated with hereditary stomatocytosis, a form of hemolytic anemia. There is a pseudogene for this gene on chromosome 6. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2012]

Transcript Variant: This variant (1) encodes the longest isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.