

Product datasheet for SC117649

Genethonin 1 (STBD1) (NM_003943) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Genethonin 1 (STBD1) (NM_003943) Human Untagged Clone
Tag:	Tag Free
Symbol:	Genethonin 1
Synonyms:	GENEX3414; GENX-3414
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC117649 sequence for NM_003943 edited (data generated by NextGen Sequencing)

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ATGGGCGCCGCTGGTCCGCCCTGCTGGTTGGAGGGGTCTGGCCGGAGCACTTTTCGTT
TGGCTGCTGCGGGCGGCCCTGGCGACACCGGAAGGACGGGATGCGGAGCAGGAGAAA
GACGCCCTCTTGGGGGAGCTGCGATTCCGGGAGGCCATCAGAGTGCCAGCAGCGGACTG
AGCCCTGGACCTCCGGGCAGGAGCTGGTCACCAAACCAGAGCATCTTCAAGAAAGCAAT
GGACATTTGATTTCTAAGACCAAAGACCTTGGTAAACTGCAAGCAGCATCATGGAGATTG
CAGAATCCTTCCAGGGAAGTCTGTGACAATTCAAGAGAACATGTTCTTCTGGACAGTTT
CCAGACACAGAAGCTCCAGCTACCTCTGAGACCAGTAACTCTAGGAGTTACTCTGAAGTT
TCAAGAAATGAAAGCCTTGAATCTCTATGGGAGAATGGGGATTCCAAAAAGACAAGAG
ATATCTGCTAAAGCAGCTACATGTTTTGCAGAGAAGTTGCCTTCTAGCAACCTGCTCAAG
AACAGAGCTAAAGAAGAAATGAGCCTCTCTGATTTGAACAGTCAGGACCGGGTTGACCAC
GAGGAGTGGGAAATGGTGCCTAGGCACTCATCTTGGGGGATGTTGGTGTGGGTGGCAGT
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GAAGCAAGAGGTGAGCAAGTGCATGGGAAAATGGAAAGGGTAGCAGTGATGCCTGCAGGG
TCTCAGCAAGTTAGTGTGAGGTTCCAGGTCCATTATGTCACAAGCACTGATGTGCAATTC
ATTGCAGTAACTGGAGACCATGAGTGTCTTGGGAGATGGAACACTTACATCCCCTCCAC
TATAACAAGGATGGGTTCTGGTCTCATTCCATTTTCTGCCTGCAGATACAGTGGTGGAG
TGAAGTTTGTGTGGTAGAGAATGGGGGAGTTACCCGCTGGGAAGAATGCAGCAATAGA
TTCTAGAAACTGGCCATGAGGATAAAGTGGTTCACGCATGGTGGGGATTCACTGA

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Clone variation with respect to NM_003943.4



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_003943 unedited TAAGAATTAGTATACGACTCACTATAGGCGGCCGGAATCGGCACGAGGCGGCGCAGAAC CGTAAAAGCTGGAGCGGGCGGGGTAGGTGTGGCTCTGTGTGCGTGACCTGAGCCCCGGTC CCAAGTCCCTGTAGTCTCCTGCGGCCGCGGCTCTCAGCCATGGGCGCCGTCTGGTCCGCC CTGCTGGTTGGAGGGGTCTGGCCGGAGCACTTTTCGTTTGGCTGCTGCGGGGCGGCCCT GCGGACACCGGAAGGACGGGGATGCGGAGCAGGAGAAAGACGCCCTCTTGGGGAGCT GCGATTCGCGGAGGCCATCAGAGTGGCAGCAGCGGACTGAGCCCTGGACCTTCGGGCGAG GAGTGGTCAACAAACCAGAGCATCTTCAAGAAAGCAATGGACATTTGATTTCTAAGACC AAAGACCTTGGTAAACTGCAAGCAGCATCATGGAGATTGAGAATCCTTCCAGGGAAGTC TGTGACAATTCAGAGAACATGTTCTTCTGGACAGTTTCCAGACACAGAAGCTCCAGCT ACCTCTGAGACCAGTAACTCTAGGAGTTACTCTGAAGTTTCAAGAAATGAAAGCCTTGAA TCTCTATGGGAGAATGGGGATTCAAAAAGGACAAGAGATATCTGCTAAAGCAGCTACA TGTTTTGCAGAGAAGTTGCCTTAGCAACCTGCTCAAGAACAGAGCTAAAGAAGAAATG AGCCTCTCTGATTTGAACAGTCAGGACCGGTTGACCACGAAGAGTGGGAAATGGTGCT ANGCACTCATCTTGGGGGATGTTNGGTGTGGTGGCAGTCTTAAGGCTCCAGTGNTAAAC CTCNACCAGGGAATGGCAGATGGNAGAAGCACTTTGGTGAAGCAAGAGTCACCCAGTGC ATGGAAAAATGGAAGGTANCANTGATGCTGCAGGNTCTCANCCAGNTATTGTCAGGTC CCAAGTCCATCATGT</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_003943 unedited CAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTGAAGAATTAATAATTCAGGTTTTATTAT TTGTTTCAGTTATAATAATTTAAGTTAATATTTGCTGTATTCTCAGAGCAAAGATGTATTT CTGTACCACTGTCCTGTATAAATTTGTTACCCAAGATAGTGACTGGTATGAAAGGAGAGG GAAGAGGGTGACAGATGGAACGATTGCTGTAGGACAGTCCATCTGGCCAGATGCGGTGG GGGAGGGGAGAATAAGTGGGAGAGAGATGGTCTACAGATGCTCCCATGGGTAATGATG GGTGCATCCCTCCCTGCAGTCGGGCTGTGCCTGTACTTACAGTCCTCTAAGAGGTGTCA TTCAGGCCACCTCACTCAGCCTATGCCCAACCCCACTCACTTTCCCTTTCCTTATGGGCT GCCCCCGCAACTGACTTCCATGATGATTGGTTCTCATTAGGCCCTTTGTTTCTACACCAG CCTTAGATCATTAAAGACAAAGACGTACTTGCTACCCTCATAGCACATAACAACGCCTGGC AGATGAAAATCAAACAAAAGCATTAGGCAGTCCTAGAACATTATCTTGATCCTTACTA ATCACATCCAGACCAGATATTTTCTAATCACAGTTTCGTATGATGTTAACTTTTTAAGCA TAAAATGTGTATGTAGAAAAAGTGCTTTCCAGCTGTACCATANGGAGTCAGTATGTTT GAGTGAAGCTTATTTACTACCATAGTTTAAAGATCACCTAAAGGCTCAAGCTTGAACCC TGGGCAGCTGTTAATGTTTTTGCTTCGCGACACCTTTAAACTTGATCTTAGCCAGTTCC TTCCCAGAAAAATCAGCCCTAAGTATACGGTTTCAGACAGCCGTCATCCNGCCACAGGAAA AAGTTACATTCGCGGAGCTTTTCGTGGGGGGCATTAAATCCCATAACCTTATTATTTG CACTAACAAATTTATTTGTAATTAACAC</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_003943
Insert Size:	2240 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_003943.1](#), [NP_003934.1](#)

RefSeq Size: 2340 bp

RefSeq ORF: 1077 bp

Locus ID: 8987

UniProt ID: [O95210](#)

Cytogenetics: 4q21.1

Domains: CBM_20

Protein Families: Transmembrane

Gene Summary: Acts as a cargo receptor for glycogen. Delivers its cargo to an autophagic pathway called glycophagy, resulting in the transport of glycogen to lysosomes.[UniProtKB/Swiss-Prot Function]