

Product datasheet for **SC322658**

SGSH (NM_000199) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SGSH (NM_000199) Human Untagged Clone
Tag:	Tag Free
Symbol:	SGSH
Synonyms:	HSS; MPS3A; SFMD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for SC322658
 GCCGCCGCCCATGAGCTGCCCGTGCCCGCCTGCTGCGCGCTGCTGCTAGTCCTGGGG
 CTCTGCCGGGCGCGTCCCCGGAACGCACTGCTGCTCCTCGCGGATGACGGAGGCTTTGAG
 AGTGGCGCGTACAACAACAGCGCCATCGCCACCCCGCACTGGACGCCTTGGCCCGCCG
 AGCCTCCTCTTTGCAATGCCTTACCTCGGTACGAGCTGCTCTCCAGCCGCGCCAGC
 CTCCTCACTGGCCTGCCCAGCATCAGAATGGGATGTACGGGCTGCACCAGGACGTGCAC
 CACTTCAACTCCTTCGACAAGGTGCGGAGCCTGCCGCTGCTGCTCAGCCAAGCTGGTGTG
 CGCACAGGCATCATCGGGAAGAAGCACGTGGGGCCGGAGACCGTGTACCGTTTTGACTTT
 GCGTACACGGAGGAGAATGGCTCCGTCCTCCAGGTGGGGCGGAACATCACTAGAATTAAG
 CTGCTCGTCCGAAATCCTGCAGACTCAGGATGACCGGCCTTTCTTCTCTACGTGCGC
 TTCCACGACCCCCACCGCTGTGGGCACTCCAGCCCCAGTACGGAACCTTCTGTGAGAAG
 TTTGGCAACGGAGAGAGCGGCATGGGTGATCCAGACTGGACCCCCAGGCCTACGAC
 CCACTGGACGTGCTGGTGCCTTACTTCGTCCCAACACCCCGGCAGCCCGAGCCGACCTG
 GCCGCTCAGTACACCACCGTAGGCCGATGGACCAAGGAGTTGGACTGGTGTCCAGGAG
 CTGCGTGACGCCGTGCTGAACGACACACTGGTGATCTTACGTCCGACAACGGGATC
 CCCTTCCCAGCGGCAGGACCAACTGTACTGGCCGGGCACTGCTGAACCCTTACTGGTG
 TCATCCCCGAGCACCCAAAACGCTGGGGCCAAGTCAGCGAGGCCTACGTGAGCCTCCTA
 GACCTCACGCCACCATCTTGGATTGGTTCTCGATCCCGTACCCAGCTACGCCATCTTT
 GGCTCGAAGACCATCCACCTCACTGGCCGGTCCCTCCTGCCGGCGCTGGAGGCCGAGCCC
 CTCTGGGCCACCGTCTTTGGCAGCCAGAGCCACCAGAGGTCACCATGTCTACCCCATG
 CGCTCCGTGCAGACCCGGCACTTCGGCTCGTGCACAACCTCACTTCAAGATGCCCTTT
 CCCATCGACCAGGACTTCTACGTCTCACCACCTTCCAGGACCTCCTGAACCGCACTACA
 GTGGTCAGCCACGGGCTGGTACAAGGACCTCCGTCTTACTACTACCGGGCGCGTGG
 GAGCTCTACGACCGGAGCCGGGACCCACGAGACCCAGAACCTGGCCACCGACCCGCGC
 TTTGCTCAGTCTTGGAGATGCTTCGGGACCAGCTGGCCAAGTGCAAGTGGGAGACCCAC
 GACCCCTGGGTGTGCGCCCCGACGCGCTCCTGGAGGAGAAGCTCTCTCCCAGTGCCAG
 CCCCTCCACAATGAGCTGTGACCATCCAGGAGGCCTGTGCACACATCCAGGCATGTCC
 CAGACACATCCCACAGTGTCCGTGTGGCCGGCCAGCCTGGGAGTAGTGGCAACAGCCC
 TTCCGTCCACACTCCATCCAAGGAGGTTCTTCTTCTGTGGGGTCACTTTGCCATT
 GCCTGGAGGGGGACCAGAGCATGTGACCAGAGCATGTGCCAGCCCTCCACCACCAGGG
 GCACTGCCGTATGGCAGGGGACACAGTTGTCTTGTGTCTGAACCATGTCCCAGCACGG
 GAATTCTAGACATACGTGGTCTGCGGACAGGGCAGTGCCCCAGCCAGGACAAGGGAGT
 CTTGTTTTCTGGCTTGGTTTGGGGACCTGCAAATGGGAGGCCTGAGGCCCTTTCAGGCT
 TTGGCAGCCACAGATACTTCTGAACCCTTACAGAGAGAGGAGGAGGGGCTTCGGTGCCGC
 GTGGGCAGTACGCAGGTCCCACCGACACTCACCTGGGAGCACGGCGCCTGGCTCTTACCA
 GCGTCTGGCCTAGAGGAAGCCTTTGAGCGACCTTTGGGCAAGTTTCTGCTTCTTCTGTTT
 TGCCCCATGGTCAAGTCCCTGTTCCCAGGCAGTTTCAGCTGATTGGCAGCAGGCTCCC
 TGAAGATGAAGGCATGGCGATGCCCGTCCCTCTGGCTTGGGTTAATTCTTCGGTGACACT
 GGCAATGCTGGTGGTGTGATGCCCGTCCCTCTGGCTTGGGTTAATTCTTCGGTGACACTGGC
 GTTGTGGTGGCAATGCCCGTCCCTCTGGCTTGGGCTAATTCTTCGGTGACACTGGCGTT
 GCTGGGTGGCGATGCCCGTCCCTCTGGCTTGGGTTAATTCTTGGATGACGTGCGGCTTGT
 GGGAGAATGTGCCGTTCTGCCCTGCCCTCCACCCACCTCGGGAGCAGAAGCCCGGCTGG
 ACACCCCTCGGCCTGGACACCCCTCGAAGGAGAGGGCGCTTCTTGAAGTGGTGGCTCC
 CCTTGGCCTTCCCTCCCTACTCCATACTGGGGTGGGCTGGAGGAGGCCACAGGCCAG
 CTATTGTAAGCTTTTTATTTTATTTAGTAAAATATACAGAAGTAAAAAAAAAAAAAAAAAA
 AA

Restriction Sites: Please inquire

ACCN: NM_000199

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA
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:	<u>NM_000199.2</u> , <u>NP_000190.1</u>
RefSeq Size:	2740 bp
RefSeq ORF:	1509 bp
Locus ID:	6448
UniProt ID:	<u>P51688</u>
Cytogenetics:	17q25.3
Domains:	Sulfatase
Protein Families:	Druggable Genome
Protein Pathways:	Glycosaminoglycan degradation, Lysosome, Metabolic pathways
Gene Summary:	This gene encodes the enzyme sulfamidase; one of several enzymes involved in the lysosomal degradation of heparan sulfate. Mutations in this gene are associated with the lysosomal storage disease mucopolysaccharidosis IIIA, also known as Sanfilippo syndrome A, which results from impaired degradation of heparan sulfate. Transcripts of varying sizes have been reported but their biological validity has not been determined. [provided by RefSeq, Jun 2017]