

Product datasheet for **RG208270**

SGSH (NM_000199) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SGSH (NM_000199) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SGSH
Synonyms:	HSS; MPS3A; SFMD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG208270 representing NM_000199
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGCTGCCCGTGCCCGCCTGCTGCGCGCTGCTGCTAGTCCTGGGGCTCTGCCGGCGCGTCCCCGGA
 ACGCACTGCTGCTCCTCGCGGATGACGGAGGCTTTGAGAGTGGCGGTACAAACAACAGCGCCATCGCCAC
 CCCGACCTGGACGCCTTGGCCCGCCGAGCCTCCTCTTCGCAATGCCTTACCTCGGTGAGCAGCTGC
 TCTCCAGCCGCGCCAGCCTCCTCACTGGCCTGCCCCAGCATCAGAATGGGATGTACGGGCTGCACCAGG
 ACGTGCACCACCTCAACTCCTTCGACAAGGTGCGGAGCCTGCCGCTGCTGCTCAGCCAAGCTGGTGTGGC
 CACAGGCATCATCGGAAGAAGCACGTGGGGCCGGAGACCGTGTACCCGTTTGACTTTGCGTACACGGAG
 GAGAATGGCTCCGTCCTCAGGTGGGGCGGAACATCACTAGAATTAAGCTGCTCGTCGGAAATTCCTGC
 AGACTCAGGATGACCGGCCTTTCTTCTCTACGTCGCCTTCCACGACCCCAACCGCTGTGGGCACTCCCA
 GCCCAGTACGGAACCTTCTGTGAGAAGTTTGGCAACGGAGAGAGCGGCATGGGTGATCCAGACTGG
 ACCCCCCAGGCCTACGACCCACTGGACGTGCTGGTGCCTTACTTCGTCCCAACACCCCGGAGCCCGAG
 CCGACCTGGCCGCTCAGTACACCACCGTAGGCCGATGGACCAAGGAGTTGGACTGGTGTCTCCAGGAGCT
 GCGTGACGCCGGTGTCTGAACGACACACTGGTGTATTTACGTCGACAAACGGGATCCCTTCCCCAGC
 GGCAGGACCAACCTGACTGGCCGGGCACTGCTGAACCTTACTGGTGTATCCCGGAGACCCAAAAC
 GCTGGGGCCAAGTCAGCGAGGCCACTGAGCCTCCTAGACCTCACGCCACCATCTTGGATTGGTTCTC
 GATCCCGTACCCAGCTACGCCATCTTTGGCTCGAAGACCATCCACCTCACTGGCCGGTCCCTCTGCCG
 GCGCTGGAGGCCGAGCCCTCTGGGCCACCGCTTTGGCAGCCAGAGCCACCACGAGGTACCATGTCTCT
 ACCCCATGCGCTCCGTGCAGCACCGGCACTTCCGCCTCGTGCACAACCTCAACTCAAGATGCCCTTTCC
 CATCGACCAAGACTTCTACGTCTCACCCACCTTCCAGGACTCCTGAACCGCACTACAGCTGGTCAGCCC
 ACGGGCTGGTACAAGGACCTCCGTCATTACTACTACCGGGCGCGCTGGGAGCTCTACGACCGGAGCCGGG
 ACCCCACGAGACCCAGAACCTGGCCACCGACCCGCGCTTTGCTCAGCTTCTGGAGATGCTTCGGGACCA
 GCTGGCCAAGTGGCAGTGGGAGACCCACGACCCCTGGGTGTGCGCCCCGACGGCGTCTGGAGGAGAAG
 CTCTCTCCCAAGTCCAGCCCTCCACAATGAGCTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG208270 representing NM_000199
 Red=Cloning site Green=Tags(s)

MSCPVPACALLLVGLCRARPRNALLLADDGGFESGAYNNSAIATPHLDALARRSLLFRNAFTSVSSC
 SPSRASLLTGLPQHONGMYGLHQDVHHFNSFDKVRSLPLLLSQAGVRTGIIGKKHVGPEVYPPDFAYTE
 ENGSVLQVGRNITRIKLLVRKFLQTQDDRPFFLYVAFHDPHRCGHSQPQYGTFCFKFNGESGMGRIPDW
 TPQAYDPLDVLVPYFVPNTPAARADLAAQYTTVGRMDQGVGLVQLERDAGVLDLVIIFTSDNGIPFPS
 GRTNLYWPGTAEPLLVSPEHPKRWQVSEAYVSLLDLTPTILDWFSIPYPSYAIIFGSKTIHLTGRSLLP
 ALEAEPLWATVFGSQSHHEVTMSYPMRSVQHRHFRLVHNLNFKMPFPIDQDFYVSPFTQDLLNRTTAGQP
 TGWYKDLRHYYRARWELYDRSRDPHETQNLATDPRFAQLLEMLRDLAKWQWETHDPWVCAPDGVLEEK
 LSPQCQPLHNEL

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

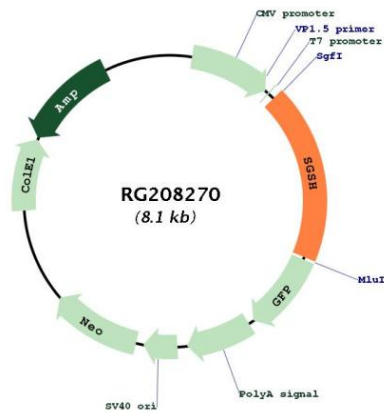
Domains: Sulfatase

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]

Product images:



Circular map for RG208270