

## Product datasheet for SC306625

### HS3ST5 (NM\_153612) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HS3ST5 (NM_153612) Human Untagged Clone
Tag:	Tag Free
Symbol:	HS3ST5
Synonyms:	3-OST-5; 3OST5; HS3OST5; NBLA04021
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC306625 representing NM_153612. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCTATTCAAACAGCAGGCGTGGCTGAGACAGAAGCTCCTGGTCTGGGAAGCCTTGCCGTTGGGAGT
CTCCTGTATCTAGTCGCCAGAGTTGGGAGCTTGGATAGGCTACAACCCATTTGCCCATTTGAAGTCCGA
CTGGGTGGAGCCCGCACTCAGGCTGAATCCCCTTCGCGCCCTGCAGTTAAGCGTGGCCTGCTGCAC
GAGTTCGGAAGGGCAACGCTTCCAAGGAGCAGGTTCCGCTCCATGACCTGGTCCAGCAGCTCCCAAG
GCCATTATCATTGGGGTGAAGAAAGGAGGCACAAGGGCCCTGCTTAAAATGCTGAACCTACATCCGGCA
GTAGTCAAAGCCTCTCAAGAAATCCACTTTTTTGTAAATGATGAGAATTATGGTAAGGGCATTGAGTGG
TATAGGAAAAAGATGCCTTTTTCTACCCTCAGCAATACAATTGAAAAGAGCCAGCATATTTATC
ACAGAGGAGGTTCCAGAAAGGATTTACAAAATGAACCTATCCATCAAGTTGTTGATCATTGTCAGGGAG
CCAACCACAAGAGCTATTTCTGATTATACTCAGGTGCTAGAGGGGAAGGAGAGGAAGAACAAAATTAT
TACAAGTTTGAGAAGCTGGCCATAGACCCTAATACATGCGAAGTGAACACAAAATACAAAGCAGTAAGA
ACCAGCATCTACACCAACATCTGGAAAGTGGTTGAAATACTTTCCAATTGAGCAATTTTCATGTCGTC
GATGGAGATCGCCTCATCAGGAACCTCTGCCAGAACTCAGCTCGTGGAGAAGTTCTAAATCTGCCT
CCAAGGATAAGTCAATACAATTTATACTTCAATGCTACCAGAGGGTTTACTGCTTGGGTTAATATT
ATCTTTAATAAGTGCCTGGCGGGCAGCAAGGGGCGCATTCCAGAGGTGGACCCTCTGTCATTACT
AAATTGCGCAAAATCTTTCATCCTTTTAAATCAAAAATTTACCAGATCACTGGGAGGACATTGAACCTGG
CCCTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI

Plasmid Map: □



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<b>ACCN:</b>	NM_153612
<b>Insert Size:</b>	1041 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	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.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_153612.3</a></u>
<b>RefSeq Size:</b>	2744 bp
<b>RefSeq ORF:</b>	1041 bp
<b>Locus ID:</b>	222537
<b>UniProt ID:</b>	<u><a href="#">Q8IZT8</a></u>
<b>Cytogenetics:</b>	6q21-q22.1
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Heparan sulfate biosynthesis
<b>MW:</b>	40.4 kDa
<b>Gene Summary:</b>	HS3ST5 belongs to a group of heparan sulfate 3-O-sulfotransferases (EC 2.8.2.23) that transfer sulfate from 3-prime-phosphoadenosine 5-prime phosphosulfate (PAPS) to heparan sulfate and heparin (Mochizuki et al., 2003 [PubMed 12740361]).[supplied by OMIM, Mar 2008]