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Product datasheet for SC319867

HS3ST3A1 (NM_006042) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HS3ST3A1 (NM_006042) Human Untagged Clone
Tag:	Tag Free
Symbol:	HS3ST3A1
Synonyms:	3-OST-3A; 3OST3A1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for NM_006042.1 GGAGCCCCGGCCGCTGCCTCCCGGGACAGTTCGCACGGCCACAGGGGCGCACGGCGATGT GGCCTCCGTCCAGCGCGCTGGCCCGCCGGGGGGATGCTCTGGCACCTGTCGGGGTCCAGG CCTAGCATGGCCGGCACGTTGCCCGACGTCGCCTCCGGCTAGGATGGCCCCTCCGGGCCC GGCCAGTGCCCTCTCCACCTCGGCCGAGCCGCTGTCCCGCAGCATCTTCCGGAAGTTCTT GCTGATGCTCTGCTCCCTGCTCACGTCCCTTTACGTCTTCTACTGCCTGGCCGAGCGCTG CCAGACCCTGTCCGGCCCCGTCGTGGGGCTGTCCGGCGGCGGCGAGGAGGCGGGGGCCCC TGGTGGCGGCGTCCTGGCCGGAGGCCCGAGGGAGCTGGCGGTGTGGCCGGCGGCGGCACA GAGAAAGCGCCTCCTGCAACTGCCGCAGTGGCGGAGGCGCCGGCCGCCCGCGCCCCGCGA CGACGGCGAGGAGGCGGCCTGGGAAGAAGAGTCCCCTGGCCTGTCAGGGGGTCCGGGCGG CTCCGGGGCCGGAAGCACCGTGGCCGAGGCCCCGCCGGGGACCCTGGCGCTGCTCCTGGA CGAAGGCAGCAAGCAGCTGCCGCAGGCCATCATCATCGGAGTGAAGAAGGGCGGCACGCG GGCGCTGCTGGAGTTCCTGCGCGTGCACCCCGACGTGCGCGCCGTGGGCGCCGAGCCCCA CTTCTTCGACCGCAGCTACGACAAGGGCCTCGCCTGGTACCGGGACCTGATGCCCAGAAC CCTGGACGGGCAGATCACCATGGAGAAGACGCCCAGTTACTTCGTCACGCGGGAGGCCCC CGCGCGCATCTCGGCCATGTCCAAGGACACCAAGCTCATCGTGGTGGTGCGGGACCCGGT GACCAGGGCCATCTCGGACTACACGCAGACGCTGTCCAAGCGGCCCGACATCCCCACCTT CGAGAGCTTGACGTTCAAAAACAGGACAGCGGGCCTCATCGACACGTCGTGGAGCGCCAT CCAGATCGGCATCTACGCCAAGCACCTGGAGCACTGGCTGCGCCACTTCCCCATCCGCCA GATGCTCTTCGTGAGCGGCGAGCGGCTCATCAGCGACCCGGCCGGGGAGCTGGGCCGCGT GCAAGACTTCCTGGGCCTCAAGAGGATCATCACGGACAAGCACTTCTACTTCAACAAGAC CAAGGGCTTCCCCTGCCTGAAGAAGGCGGAGGGCAGCAGCCGGCCCCATTGCCTGGGCAA GACCAAGGGCAGGACCCATCCTGAGATCGACCGCGAGGTGGTGCGCAGGCTGCGCGAGTT CTACCGGCCTTTCAACCTCAAGTTCTACCAGATGACCGGGCACGACTTTGGCTGGGATGG ATAACCATATAATTTAAAAAAAAAAAAAAAAAA
Restriction Sites:	Please inquire

View online »

ACCN:	NM_006042
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:	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_006042.1, NP_006033.1
RefSeq Size:	2546 bp
RefSeq ORF:	1221 bp
Locus ID:	9955
UniProt ID:	Q9Y663
Cytogenetics:	17p12
Protein Pathways:	Glycosaminoglycan degradation, Heparan sulfate biosynthesis
Gene Summary:	Heparan sulfate biosynthetic enzymes are key components in generating a myriad of distinct heparan sulfate fine structures that carry out multiple biologic activities. The enzyme encoded by this gene is a member of the heparan sulfate biosynthetic enzyme family. It is a type II integral membrane protein and possesses heparan sulfate glucosaminyl 3-O-sulfotransferase activity. The sulfotransferase domain of this enzyme is highly similar to the same domain of heparan sulfate D-glucosaminyl 3-O-sulfotransferase 3B1, and these two enzymes sulfate an identical disaccharide. This gene is widely expressed, with the most abundant expression in liver and placenta. [provided by RefSeq, Dec 2014]