

# **Product datasheet for RG208327**

## HS3ST3A1 (NM\_006042) Human Tagged ORF Clone

### **Product data:**

**Product Type:** Expression Plasmids

Product Name: HS3ST3A1 (NM\_006042) Human Tagged ORF Clone

Tag: TurboGFP Symbol: HS3ST3A1

Synonyms: 3-OST-3A; 3OST3A1

Mammalian Cell

Selection:

Neomycin

**Vector:** pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG208327 representing NM\_006042

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGCCCCTCCGGGCCCGGCCAGTGCCCTCTCCACCTCGGCCGAGCCGCTGTCCCGCAGCATCTTCCGGA AGTTCTTGCTGATGCTCTGCTCCCTGCTCACGTCCCTTTACGTCTTCTACTGCCTGGCCGAGCGCTGCCA GACCCTGTCCGGCCCGTCGTGGGGCTGTCCGGCGGCGGCGAGGAGGCGGGGGCCCCTGGTGGCGGCGTC CTGGCCGGAGGCCCGAGGGAGCTGGCGGTGTGGCCGGCGGCGCACAGAGAAAGCGCCTCCTGCAACTGC CCCTGGCCTGTCAGGGGGTCCGGGCGGCTCCGGGGCCGGAAGCACCGTGGCCGAGGCCCCGCCGGGGACC CTGGCGCTGCTCCTGGACGAAGGCAGCAAGCAGCTGCCGCAGGCCATCATCATCGGAGTGAAGAAGGGCC GCACGCGGGCGCTGCTGGAGTTCCTGCGCGTGCACCCCGACGTGCGCCGCTGGGCGCCGAGCCCCACTT CTTCGACCGCAGCTACGACAAGGGCCTCGCCTGGTACCGGGACCTGATGCCCAGAACCCTGGACGGGCAG ATCACCATGGAGAAGACGCCCAGTTACTTCGTCACGCGGGAGGCCCCCGCGCGCATCTCGGCCATGTCCA AGGACACCAAGCTCATCGTGGTGCTGCGGGACCCGGTGACCAGGGCCATCTCGGACTACACGCAGACGCT GTCCAAGCGGCCCGACATCCCCACCTTCGAGAGCTTGACGTTCAAAAACAGGACAGCGGGCCTCATCGAC ACGTCGTGGAGCGCCATCCAGATCGGCATCTACGCCAAGCACCTGGAGCACTGGCTGCGCCACTTCCCCA AGACTTCCTGGGCCTCAAGAGGATCATCACGGACAAGCACTTCTACTTCAACAAGACCAAGGGCTTCCCC TGCCTGAAGAAGGCGGAGGGCAGCAGCCGCCCCATTGCCTGGGCAAGACCAAGGGCAGGACCCATCCTG AGATCGACCGCGAGGTGGTGCGCAGGCTGCGCGAGTTCTACCGGCCTTTCAACCTCAAGTTCTACCAGAT GACCGGCACGACTTTGGCTGGGATGGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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## HS3ST3A1 (NM\_006042) Human Tagged ORF Clone - RG208327

Protein Sequence: >RG208327 representing NM\_006042

Red=Cloning site Green=Tags(s)

MAPPGPASALSTSAEPLSRSIFRKFLLMLCSLLTSLYVFYCLAERCQTLSGPVVGLSGGGEEAGAPGGGV LAGGPRELAVWPAAAQRKRLLQLPQWRRRRPPAPRDDGEEAAWEEESPGLSGPGGSGAGSTVAEAPPGT LALLLDEGSKQLPQAIIIGVKKGGTRALLEFLRVHPDVRAVGAEPHFFDRSYDKGLAWYRDLMPRTLDGQ ITMEKTPSYFVTREAPARISAMSKDTKLIVVVRDPVTRAISDYTQTLSKRPDIPTFESLTFKNRTAGLID TSWSAIQIGIYAKHLEHWLRHFPIRQMLFVSGERLISDPAGELGRVQDFLGLKRIITDKHFYFNKTKGFP CLKKAEGSSRPHCLGKTKGRTHPEIDREVVRRLREFYRPFNLKFYQMTGHDFGWDG

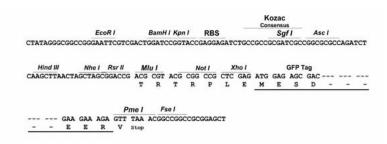
TRTRPLE - GFP Tag - V

**Restriction Sites:** 

Sgfl-Mlul

**Cloning Scheme:** 





**ACCN:** NM\_006042

ORF Size: 1218 bp

**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of

reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing

variants is recommended prior to use. More info

**OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

**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:** <u>NM 006042.3</u>

 RefSeq Size:
 2546 bp

 RefSeq ORF:
 1221 bp

 Locus ID:
 9955

 UniProt ID:
 Q9Y663

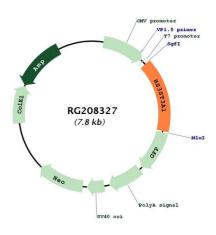
 Cytogenetics:
 17p12

**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]

## **Product images:**



Circular map for RG208327