

Product datasheet for **RC210876**

HS3ST5 (NM_153612) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	HS3ST5 (NM_153612) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HS3ST5
Synonyms:	3-OST-5; 3OST5; HS3OST5; NBLA04021
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC210876 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGCTATTCAAACAGCAGGCGTGGCTGAGACAGAAGCTCCTGGTCTGGGAAGCCTTGCCGTTGGGAGTC
TCCTGTATCTAGTCGCCAGAGTTGGGAGCTTGATAGGCTACAACCCATTTGCCCATTAAGGTCGACT
GGGTGGAGCCCGCACTCAGGCTGAATCCCACTTCGCGCCCTGCAGTTAAAGCGTGGCCTGCTGCACGAG
TTCCGGAAGGGCAACGCTTCCAAGGAGCAGGTTCCGCTCCATGACCTGGTCCAGCAGCTCCCAAGGCCA
TTATCATTGGGGTGAGGAAAGGAGGCACAAGGGCCCTGCTTGAATGCTGAACCTACATCCGGCAGTAGT
CAAAGCCTCTCAAGAAATCCACTTTTTTGATAATGATGAGAATTATGGTAAGGGCATTGAGTGGTATAGG
AAAAAGATGCCTTTTTCTACCCTCAGCAAATCACAATTGAAAAGAGCCAGCATATTTTATCACAGAGG
AGGTTCCAGAAAGGATTTACAAAATGAACCTCATCCATCAAGTTGTTGATCATTGTGAGGGAGCCAACCAC
AAGAGCTATTTCTGATTACTCAGGTGCTAGAGGGGAAGGAGAGGAAGAACAACAACTTATTACAAGTTT
GAGAAGCTGGCCATAGACCCTAATACATGCGAAGTGAACACAAAATACAAAGCAGTAAGAACCAGCATCT
ACACCAAACATCTGGAAGGTGGTTGAAATACTTTCCAATTGAGCAATTCATGTCGTCGATGGAGATCG
CCTCATCACGGAACCTCTGCCAGAACTTCAGCTCGTGGAGAAGTTCCTAAATCGCCTCCAAGGATAAGT
CAATACAATTTACTTCAATGCTACCAGAGGTTTTACTGCTTGGGTTAATATTATCTTTAATAAGT
GCCTGGCGGGCAGCAAGGGCGCATTTCATCCAGAGGTGGACCCCTCTGTCACTAAATTCGCGCAAATT
CTTTCATCCTTTAATCAAAAATTTTACCAGATCACTGGGAGGACATTGAACTGGCCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC210876 protein sequence
 Red=Cloning site Green=Tags(s)

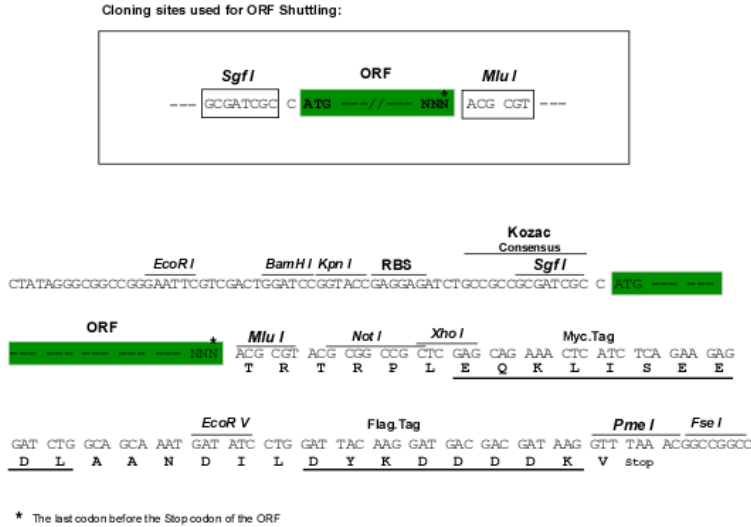
MLFKQQAWLRQKLLVLGSLAVGSLLYLVARVGS�DRLQPICTPIEGRLGGARTQAEFPLRALQFKRGLLHE
 FRKGNASKEQVRLHDLVQQLPKAIIIGVRKGGTRALLEMLNLHPAVVKASQEIHFFDNDENYGKGIEWYR
 KKMPFSYPQQITIEKSPAYFITEEVPERIYKMNSSIKLLIIVREPTTRAISDYTVLEGGKERKNKTYKFK
 EKLAIDPNTCEVNTKYKAVRTSIYTKHLERWLKYFPIEQFHVVVDGDRLLITEPLPELQLVEKFLNLP
 PPRIS QYNLYFNATRGFYCLRFNIIIFNKCLAGSKGRIHPEVDPSVITKLRKFHFPNQKFYQITGRTLNW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6383_c01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_153612

ORF Size: 1038 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: [NM_153612.3](#), [NP_705840.2](#)

RefSeq Size: 2744 bp

RefSeq ORF: 1041 bp

Locus ID: 222537

UniProt ID: [Q8IZT8](#)

Cytogenetics: 6q21-q22.1

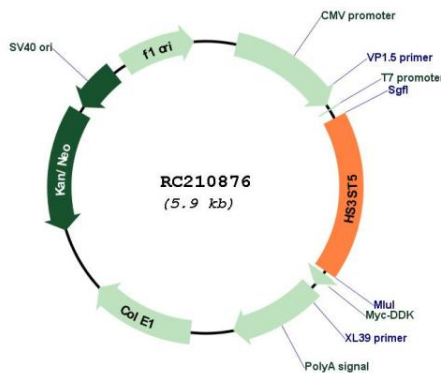
Protein Families: Transmembrane

Protein Pathways: Heparan sulfate biosynthesis

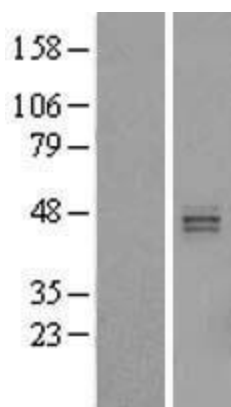
MW: 40.4 kDa

Gene Summary: 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]

Product images:



Circular map for RC210876



Western blot validation of overexpression lysate (Cat# [LY407027]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210876 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).