

Product datasheet for RC209249

HS3ST3B1 (NM_006041) Human Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	HS3ST3B1 (NM_006041) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HS3ST3B1
Synonyms:	3-OST-3B; 3OST3B1; h3-OST-3B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>>RC209249 representing NM_006041 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C

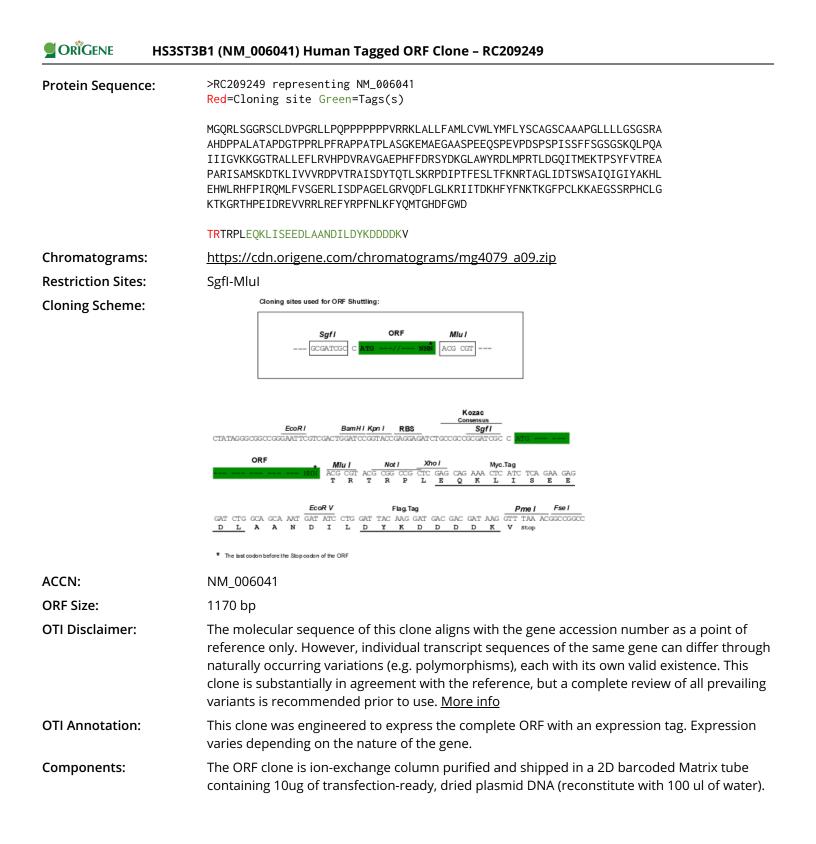
CGCCCCCGCCGCCGGTGAGGAGGAAGCTCGCGCTGCTCTTCGCCATGCTCTGCGTCTGGCTCTATATGTT GCACACGACCCGCCAGCCCTGGCCACAGCTCCGGACGGGACGCCCCCCAGGCTGCCGTTCCGGGCGCCGC CAGCCACCCCACTGGCTTCAGGCAAGGAGAAGGAGCGCGAGGGCGCTGCGAGGCCCGGAGGAGCAGAGTCCCGA ATCATCATCGGCGTGAAGAAGGGCGGCACGCGGGCGCTGCTGGAGTTTCTGCGCGTGCACCCCGACGTGC GCGCCGTGGGCCGCCGAGCCCCATTTCTTCGATCGCAGCTACGACAAGGGCCTCGCTTGGTACCGGGACCT GATGCCCAGAACCCTGGACGGGCAGATCACCATGGAGAAGACGCCCAGTTACTTCGTCACGCGGGAGGCC CCTGCGCGCATCTCGGCCATGTCCAAGGACACCAAGCTCATCGTGGTGGTGCGGGACCCGGTGACCAGGG CCATCTCGGACTACACGCAGACGCTGTCCAAGCGGCCCGACATCCCCACCTTCGAGAGCTTGACGTTCAA AAACAGGACAGCGGGCCTCATCGACACGTCGTGGAGCGCCATCCAGATCGGCATCTACGCCAAGCACCTG GAGCACTGGCTGCGCCACTTCCCCATCCGCCAGATGCTCTTCGTGAGCGGCGAGCGGCTCATCAGCGACC CGGCCGGGGAGCTGGGCCGCGTGCAAGACTTCCTGGGCCTCAAGAGGATCATCACGGACAAGCACTTCTA CTTCAACAAGACCAAGGGCTTCCCCTGCCTGAAGAAGGCGGAGGGCAGCAGCCGGCCCCATTGCCTGGGC AAGACCAAGGGCAGGACCCATCCTGAGATCGACCGCGAGGTGGTGCGCAGGCTGCGCGAGTTCTACCGGC CTTTCAACCTCAAGTTCTACCAGATGACCGGGCACGACTTTGGCTGGGAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA



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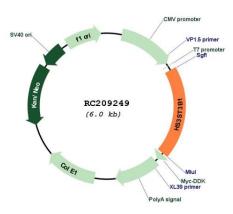
Reconstitution Method:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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 006041.3</u>
RefSeq Size:	2032 bp
RefSeq ORF:	1173 bp
Locus ID:	9953
UniProt ID:	<u>Q9Y662</u>
Cytogenetics:	17p12
Domains:	Sulfotransfer
Protein Families:	Transmembrane
Protein Pathways:	Glycosaminoglycan degradation, Heparan sulfate biosynthesis
MW:	43.1 kDa
Gene Summary:	The protein encoded by this gene is a type II integral membrane protein that belongs to the 3-O-sulfotransferases family. These proteins catalyze the addition of sulfate groups at the 3-OH position of glucosamine in heparan sulfate. The substrate specificity of individual members of the family is based on prior modification of the heparan sulfate chain, thus allowing different members of the family to generate binding sites for different proteins on the same heparan sulfate chain. Following treatment with a histone deacetylase inhibitor, expression of this gene is activated in a pancreatic cell line. The increased expression results in promotion of the epithelial-mesenchymal transition. In addition, the modification catalyzed

by this protein allows herpes simplex virus membrane fusion and penetration. A very closely related homolog with an almost identical sulfotransferase domain maps less than 1 Mb away. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2014]

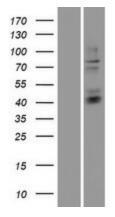
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Product images:



Circular map for RC209249



Western blot validation of overexpression lysate (Cat# [LY416914]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209249 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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