

## Product datasheet for RC223657

### HS2ST1 (NM\_012262) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	HS2ST1 (NM_012262) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	HS2ST1
Synonyms:	dj604K5.2; NFSRA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC223657 representing NM_012262 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGCTCCTCAGGATTATGATGCCGCCCAAGTTCAGCTGCTGGCGGTGGTGGCCTTCGCGGTGGCGA  
TGCTCTTCTTGGAAAACAGATCCAGAACTGGAGGAGTCCCGCTCGAAGCTAGAAAGGGCTATTGCAAG  
ACACGAAGTCCGAGAAATTGAGCAGCGACATAACAATGGATGGCCCTCGGCAAGATGCCACTTTAGATGAG  
GAAGAGGACATGGTGATCATTTATAACAGAGTTCCTCAAAACGGCAAGCACTTCATTTACCAATATCGCT  
ATGACCTGTGTCAAAGAATAAATACCATGTCCTTCATATCAACTACCAAAAATAATCCAGTGATGTC  
ATTGCAAGATCAGGTGCGCTTTGTAAAGAATAAATTCCTGGAAGAGATGAAACCAGGATTTTATCAT  
GGACACGTTTTCTACTTGGATTTTGCAAAATTTGGTGTGAAGAAGAAACCAATTTACATTAATGTCAAA  
GGGATCCTATTGAGAGGCTAGTTTCTTATTACTTTCTGAGATTTGGAGATGATTATAGACCAGGGTT  
ACGGAGACGAAAACAAGGAGACAAAAGACCTTTGATGAATGTGTAGCAGAAGGTGGCTCAGACTGTGCT  
CCAGAGAAGCTCTGGCTTCAAATCCCGTTCTTCTGTGGCCATAGCTCCGAATGCTGGAATGTGGGAAGCA  
GGTGGGCTATGGATCAAGCCAAGTATAACCTAATTAATGAATATTTCTGGTGGGAGTTACTGAAGAAT  
TGAAGATTTTATCATGTTATTGGAGGCAGCATTGCCCGGTTTTTCAGGGGTGCTACTGAACTCTATCGC  
ACAGAAAGAAATCTCATCTTAGGAAAACACAGAGAAGAACTCCCACTAAACAAACCTTGGCAAAAC  
TACAGCAATCTGATATTTGGAAAATGGAGAATGAGTTCTATGAATTTGCACTAGAGCAGTTCCAATTCAT  
CAGAGCCCATGCCGTTCCGAGAAAAGATGGAGACCTCTACATCCTCGCACAAAACTTTTCTATGAAAAG  
ATTTACCTAAGTCGAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTAA



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**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\\_012262.4](#)

**RefSeq Size:** 6708 bp

**RefSeq ORF:** 1071 bp

**Locus ID:** 9653

**UniProt ID:** [Q7LGA3](#)

**Cytogenetics:** 1p22.3

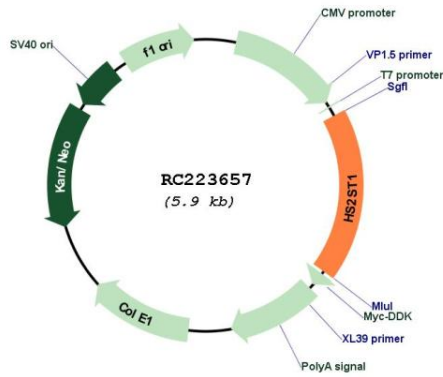
**Domains:** HS2ST

**Protein Pathways:** Heparan sulfate biosynthesis

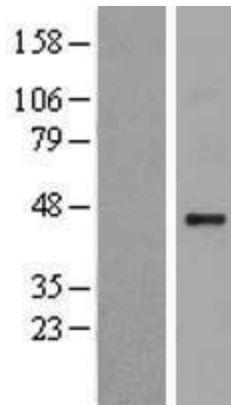
**MW:** 41.7 kDa

**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. This gene encodes a member of the heparan sulfate biosynthetic enzyme family that transfers sulfate to the 2 position of the iduronic acid residue of heparan sulfate. The disruption of this gene resulted in no kidney formation in knockout embryonic mice, indicating that the absence of this enzyme may interfere with the signaling required for kidney formation. Two alternatively spliced transcript variants that encode different proteins have been found for this gene. [provided by RefSeq, Aug 2008]

Product images:



Circular map for RC223657



Western blot validation of overexpression lysate (Cat# [LY402186]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC223657 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).