

# **Product datasheet for RG225282**

## HS2ST1 (NM\_001134492) Human Tagged ORF Clone

### **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** HS2ST1 (NM\_001134492) Human Tagged ORF Clone

Tag: TurboGFP

Symbol: HS2ST1

Synonyms: dJ604K5.2; NFSRA

Mammalian Cell Neomycin

Selection:

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

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

ORF Nucleotide >RG225282 representing NM\_001134492
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

 ${\tt TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC}$ 

GCCGCGATCGCC

CCAGAGAAGCTCTGGCTTCAAATCCCGTTCTTCTGTGGCCATAGCTCCGAATGCTGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG225282 representing NM\_001134492

Red=Cloning site Green=Tags(s)

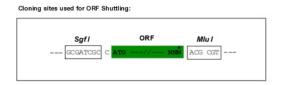
MGLLRIMMPPKLQLLAVVAFAVAMLFLENQIQKLEESRSKLERAIARHEVREIEQRHTMDGPRQDATLDE EEDMVIIYNRVPKTASTSFTNIAYDLCAKNKYHVLHINTTKNNPVMSLQDQVRFVKNITSWKEMKPGFYH GHVSYLDFAKFGVKKKPIYINVIRDPIERLVSYYYFLRFGDDYRPGLRRRKQGDKKTFDECVAEGGSDCA PEKLWLQIPFFCGHSSECW

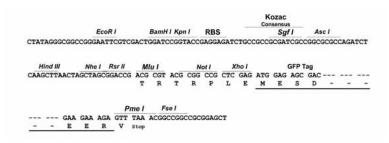
TRTRPLE - GFP Tag - V

Restriction Sites:

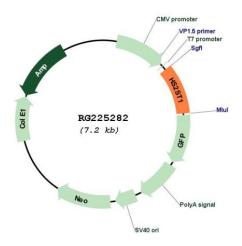
Sgfl-Mlul

**Cloning Scheme:** 





### Plasmid Map:



**ACCN:** NM\_001134492

ORF Size: 687 bp

#### HS2ST1 (NM\_001134492) Human Tagged ORF Clone - RG225282

**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 001134492.2</u>

RefSeq Size: 1623 bp
RefSeq ORF: 690 bp
Locus ID: 9653
UniProt ID: Q7LGA3

Cytogenetics: 1p22.3

**Protein Pathways:** 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. 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]