

## Product datasheet for **RG217679**

### Gsh1 (GSX1) (NM\_145657) Human Tagged ORF Clone

#### Product data:

|                           |                                                                             |
|---------------------------|-----------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                         |
| Product Name:             | Gsh1 (GSX1) (NM_145657) Human Tagged ORF Clone                              |
| Tag:                      | TurboGFP                                                                    |
| Symbol:                   | Gsh1                                                                        |
| Synonyms:                 | Gsh-1; GSH1                                                                 |
| Mammalian Cell Selection: | Neomycin                                                                    |
| Vector:                   | pCMV6-AC-GFP (PS100010)                                                     |
| E. coli Selection:        | Ampicillin (100 ug/mL)                                                      |
| ORF Nucleotide Sequence:  | >RG217679 representing NM_145657<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGCCGCGCTCCTTCCTGGTGGACTCGCTAGTGCTGCGCGAGGCGGGCGAGAAGAAGGCGCCGAGGGCA  
 GCCCGCCGCGCTCTCCCTACGCTGTGCCCCGCGCACGCGCTGCACGGTCTCTCGCTGGCGCCTG  
 CCACGCGCGCAAGGCTGGGCTGCTGTGCGTGTGCCGCTCTGCGTCACCGCCTCGCAGTGCATGGGCC  
 CCCGGGCGCCGCGCTGCCTCTGCTCAAGGCTTCCTTCCACCCTTCGGCTCGCAGTACTGCCACGCGC  
 CCCTGGGCGGCCAGCACTCTGCTGTGTCGCCCGGGTTCGCTCACGGCCCGCCGCGCTGCTGCTGCCG  
 CGCGCTCTACCGACCTCTACCGCTGCCTGACCCAGGCAGTTCCACTGCATCTCTGTGGACAGCAGC  
 TCTAACAGCTGCCAGCAGCAAGAGGATGCGCACGGCTTTCACAGCACGCAGCTGCTAGAGCTGGAGC  
 GCGAGTTCGCTTCTAATATGTACCTGTCCCGCCTACGTCGCATCGAGATCGCGACCTACCTGAATCTGTC  
 CGAGAAGCAGGTGAAGATCTGGTTTCAGAACCGCCGAGTGAAGCACAAGAAGGAGGGCAAGGGCAGCAAC  
 CATCGTGGCGGCGGCGGGGTGCCGGTGGTGGCGGGAGCGCACCGCAAGGCTGCAAGTGCATCGC  
 TCTCCTCAGCCAAGTGTCCGAGGATGACGACGAATGCCCATGTCTCCGTCCTCCTCAGGAAGGACGA  
 CCGGGATCTTACGGTCACTCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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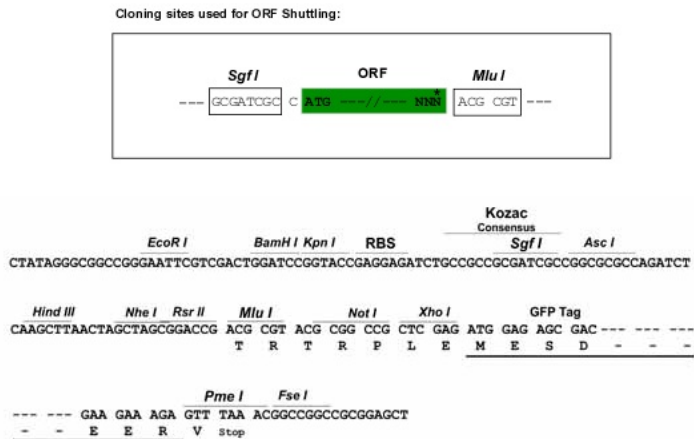
**Protein Sequence:** >RG217679 representing NM\_145657  
 Red=Cloning site Green=Tags(s)

MPRSFLVDSLVLREAGEKKAPEGSPPLFPYAVPPPHALHGLSPGACHARKAGLLCVCPLCVTASQLHGP  
 PGPPALPLLKASFPPFGSQYCHAPLGRQHSVSPGVAHGPAAAAAAAAAALYQTSYPLDPDPRQFHCISVDSS  
 SNQLPSSKRMRTAFTSTQLLELEREFASNMYLSRLRRIEATYLNLSKQVKIWFQNRVRVKKHKEGKGSN  
 HRGGGGGAGGGGSAPQGCKCASLSSAKCEDDELPMSPSSSGKDDRDLTVTP

TRTRPLE – GFP Tag – V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_145657

**ORF Size:** 792 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\\_145657.1](#), [NP\\_663632.1](#)

**RefSeq Size:** 847 bp

**RefSeq ORF:** 795 bp

**Locus ID:** 219409

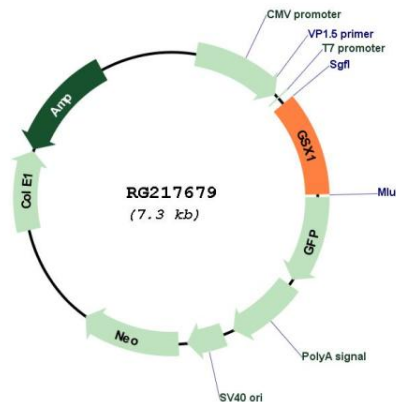
**UniProt ID:** [Q9H4S2](#)

**Cytogenetics:** 13q12.2

**Protein Families:** Transcription Factors

**Gene Summary:** Probable transcription factor that binds to the DNA sequence 5'-GC[TA][AC]ATTA[GA]-3'. Activates the transcription of the GHRH gene. Plays an important role in pituitary development.[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for RG217679