

Product datasheet for **RC217679**

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:	Myc-DDK
Symbol:	Gsh1
Synonyms:	Gsh-1; GSH1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC217679 representing NM_145657 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCCGCGCTCCTTCCTGGTGGACTCGCTAGTGCTGCGCGAGGCGGGCGAGAAGAAGGCGCCGAGGGCA
 GCCCGCCGCGCTCTCCCTACGCTGTGCCCCGCGCACGCGCTGCACGGTCTCTCGCCTGGCGCCTG
 CCACGCGCGCAAGGCTGGGCTGCTGTGCGTGTGCCGCTCTGCGTCACCGCCTCGCAGTGCATGGGCC
 CCCGGGCCGCGCGCTGCCTGTCTCAAGGCTTCCTCCACCCTTCGGCTCGCAGTACTGCCACGCGC
 CCCTGGGCCGCCAGCACTCTGCTGTGTCGCCCGGGTTCGCTCACGGCCCGCCGCGCTGCTGCTGCCG
 CGCGCTCTACCAGACCTCTACCCGCTGCCTGACCCAGGCAGTTCCACTGCATCTCTGTGGACAGCAGC
 TCTAACCAGCTGCCAGCAGCAAGAGGATGCGCACGGCTTTCACCAGCACGCAGCTGCTAGAGCTGGAGC
 GCGAGTTCGCTTCTAATATGTACCTGTCCCGCCTACGTCGCATCGAGATCGCGACCTACCTGAATCTGTC
 CGAGAAGCAGGTGAAGATCTGGTTTCAGAACCGCCGAGTGAAGCACAAGAAGGAGGGCAAGGGCAGCAAC
 CATCGTGGCGGCGGCGGGGGTGCCGGTGGTGGCGGGAGCGCACCGCAAGGCTGCAAGTGCATCGC
 TCTCCTCAGCCAAGTGTCCGAGGATGACGACGAATTGCCATGTCTCCGTCCTCCTCAGGAAGGACGA
 CCGGGATCTTACGGTCACTCCC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC217679 representing NM_145657
 Red=Cloning site Green=Tags(s)

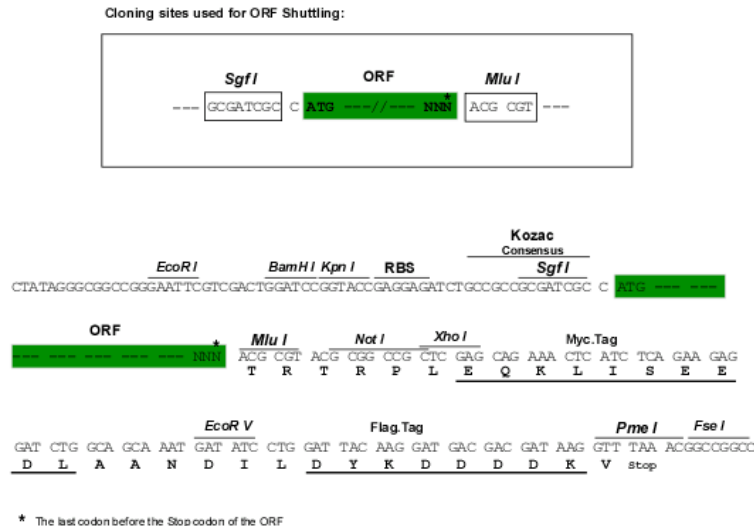
MPRSFLVDSLVLREAGEKKAPEGSPPLFPYAVPPPHALHGLSPGACHARKAGLLCVCPLCVTASQLHGP
 PGPPALPLLKASFPFGSQYCHAPLGRQHSVSPGVAHGPAAAAAAAAAALYQTSYPLPDPRQFHCISVDSS
 SNQLPSSKRMRTAFTSTQLLELEREFASNMYLSRLRRIEIATYLNLSKQVKIWFQNRVRVKKHKEGKGSN
 HRGGGGGAGGGGSAPQGCKCASLSSAKCEDDELPMSPSSSGKDDRDLTVTP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8015_a03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_145657

ORF Size: 792 bp

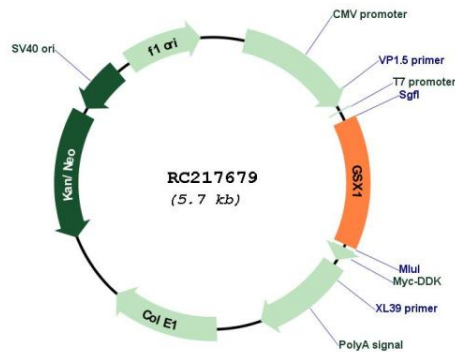
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

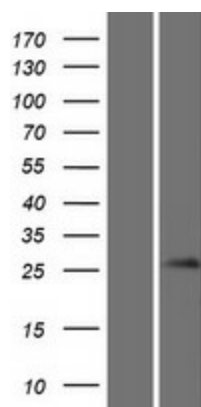
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_145657.1, NP_663632.1</u>
RefSeq Size:	847 bp
RefSeq ORF:	795 bp
Locus ID:	219409
UniProt ID:	<u>Q9H4S2</u>
Cytogenetics:	13q12.2
Protein Families:	Transcription Factors
MW:	27.7 kDa
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 RC217679



Western blot validation of overexpression lysate (Cat# [LY407912]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217679 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).