

## Product datasheet for **RG210443**

### GSH2 (GSX2) (NM\_133267) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GSH2 (GSX2) (NM_133267) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GSH2
Synonyms:	DMJDS2; GSH2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210443 representing NM_133267 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCGGCTCCTTCTATGTCGACTCGCTCATCATCAAGGACACCTCACGGCCTGCGCCCTCGTGCCTG  
AACCGCACCCGGGCGGATTTCTTCATCCCGTTGGCATGCCGCCCCATTGGTGATGTCCGTGCCG  
CCCCGGCTGCCCGTCCCACAAGAGCGGCGGTTCTGCGTGTGCCCTCTCTGCGTCACTTCGCACCTGCAC  
TCCTCTCGGGGTCTGTGGCGCCGCGCAGCGGGGCGCAGGGGCCGGGTTACCGGGCCGGAGGCAGTG  
GGGTGGCAGGGGCGCAGGGCACTGCCTCTGCTTAAGAGCCAGTCTCTTCGGCTCCTGGGACGCGCA  
GTTTTGCCCGCGGTGAACCATGCGCATCATCACCACCACCCGCCGAGCACCACCATCACCATCATCAG  
CCCCAGCAGCCTGGCTCGGCCGCGCGGCGCAGCAGCAGCAGCGCGCGGCGCGCCGCGCGCCCTTGG  
GGCACCCGAGCACCACGCACCTGTCTGCACCGCCACCACCTACAACGTGGCGGACCCGCGGAGATTCCA  
CTGCCTACCATGGGAGGCTCTGACGCCAGCCAGGTACCCAATGGCAAGAGGATGAGGACGGCGTTCACT  
AGCACGCAACTCCTGGAGCTGGAGAGAGAATTCTTCCAACATGTACCTGTCTCGACTCCGGAGGATTG  
AAATCGCCACTTACCTGAACCTGTCGGAGAAGCAGGTGAAATCTGGTTTCAGAACC GCCGAGTGAAGCA  
CAAGAAGGAGGGGAAGGGCACGCAGAGGAACAGTCACGCGGGCTGCAAGTGCCTCGGAGCCAGGTGCAC  
TACGCGCTCCGAGGATGAGGACTCCCTGTGCGCCGCCCTCAGCCAACGATGACAAGGAGATTTCCCCT  
TA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG210443 representing NM\_133267  
 Red=Cloning site Green=Tags(s)

MSRSFYVDSLIIKDTSRPAPSLPEPHPGPDFFIPLGMPPLVMSVSGPGCPSRKSGAFVCVPLCVTSHLH  
 SSRGSVGAGSGGAGAVTGAGGSGVAGAAGALPLLKSQFSSAPGDAQFCPRVNHAIHHHHPPQHIIHHHQ  
 PQQPGSAAAAAAAAAAAAAAAAALGHPQHHPVCTATTYNVADPRRFHCLTMGGSDASQVPNGKRMRTAFT  
 STQLELELEREFSSNMYLSRLRRIEATYLNLSKQVKIWFQNRVVKHKKEGKGTQRNSHAGCKCVGSQVH  
 YARSEDEDSLSPASANDDKEISPL

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_133267

**ORF Size:** 912 bp

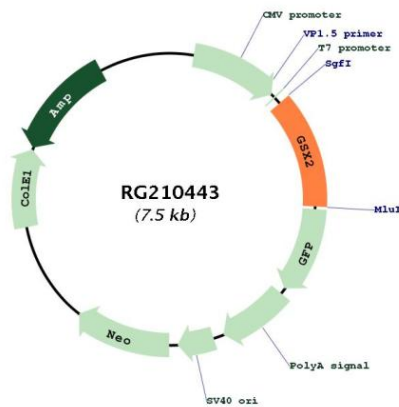
**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_133267.2</a></u>
<b>RefSeq Size:</b>	1262 bp
<b>RefSeq ORF:</b>	915 bp
<b>Locus ID:</b>	170825
<b>UniProt ID:</b>	<u><a href="#">Q9BZM3</a></u>
<b>Cytogenetics:</b>	4q12
<b>Gene Summary:</b>	During telencephalic development, causes ventralization of pallial progenitors and, depending on the developmental stage, specifies different neuronal fates. At early stages, necessary and sufficient to correctly specify the ventral lateral ganglionic eminence (LGE) and its major derivatives, the striatal projection neurons. At later stages, may specify LGE progenitors toward dorsal LGE fates, including olfactory bulb interneurons (By similarity). Transcription factor that binds 5'-CNAATTAG-3' DNA sequence.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for RG210443