

Product datasheet for **MG208693**

Glyr1 (NM_028720) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Glyr1 (NM_028720) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Glyr1
Synonyms:	2810419J22Rik; 3930401K13Rik; AW545332; Npac
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208693 representing NM_028720
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGCTGTGAGTCTGCGGCTCGGCGACTTGGTGTGGGGGAACTGGGCGGTATCCTCCCTGGCCAG
 GAAAGATTGTTAATCCACCCAAGGACTTAAAGAAACACGTGAAAGAAATGCTCTTTGTGAAGTTTTT
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 AAGGGAAAGACCAGACATCATCCACACTTCTGCTGATGACAAGAATCGGCGTAATTCAGTGAGGAGAG
 AAGTAGGCCAACTCAGGTGATGAGAAACGCAAGCTTAGCCTGTCTGAAGGGAAGGTGAAGAAGAATG
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 AGCAAAGTCCCCGAAGCGGGTCGGCCCCAAAGGATGAGAAGGACCTACCATCCCTGAGTCTAGCAC
 TGTAAAGGGGATGATGGCTGGACCGATGGCTGCATTTAAATGGCAGCCAACAGCGACCGAGCCAGTCAAA
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 CTCCCATGGCAGCTGCAGCCAATGAGGTATACAAAGAGCCAAGGCACTGGACCAGTCTGACAATGATAT
 GTCTGCCGTGTACCGAGCCTACATACAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG208693 representing NM_028720
 Red=Cloning site Green=Tags(s)

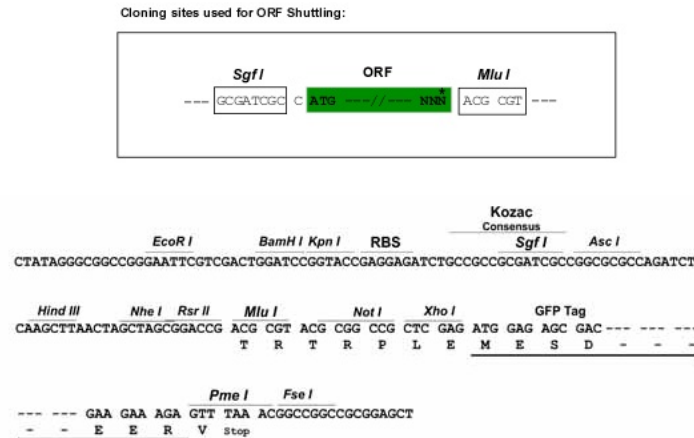
MAAVSLRLGDLVWGKLGRYPWPVKIVNPPKDLKKPRGKKCFVKKFFGTEDHAWIKVEQLKPYHAHKEEM
 IKINKGRFQQAVDAVEEFLRRAGKDKTSSHTSADDKNRRNSSEERSRPNSGDEKRKLSLSEGVKKNM
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 GEVGNAKMMLIVNMVQGSFMATIAEGLTLAQVTGQSQQTLILDILNQQLASIFLDQKCQNILQGNFKPD
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TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

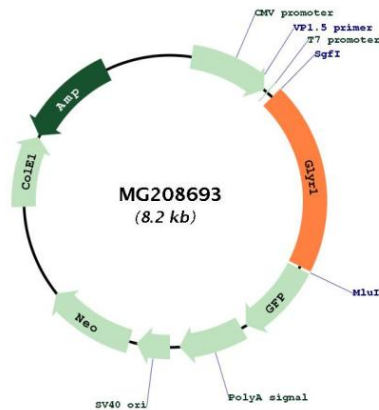
Cloning Scheme:



ACCN:	NM_028720
ORF Size:	1638 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:	NM_028720.2 , NP_082996.2
RefSeq Size:	3347 bp
RefSeq ORF:	1641 bp
Locus ID:	74022

UniProt ID:	Q922P9
Cytogenetics:	16 2.49 cM
Gene Summary:	Putative oxidoreductase that is recruited on chromatin and promotes KDM1B demethylase activity. Recognizes and binds trimethylated 'Lys-36' of histone H3 (H3K36me3). Regulates p38 MAP kinase activity by mediating stress activation of p38alpha/MAPK14 and specifically regulating MAPK14 signaling. Indirectly promotes phosphorylation of MAPK14 and activation of ATF2. The phosphorylation of MAPK14 requires upstream activity of MAP2K4 and MAP2K6. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG208693