

Product datasheet for **MR208693**

Glyr1 (NM_028720) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Glyr1 (NM_028720) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Glyr1
Synonyms:	2810419J22Rik; 3930401K13Rik; AW545332; Npac
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208693 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGCTGTGAGTCTGCGGCTCGGCGACTTGGTGTGGGGGAACTGGGCCGGTATCCTCCCTGGCCAG
 GAAAGATTGTTAATCCACCCAAGGACTTAAAGAAACCACGTGGAAAGAAATGCTTCTTTGTGAAGTTTTT
 TGGAAACAGAAGATCATGCCTGGATCAAAGTGGAACAGCTAAAGCCTTACCATGCTCACAAGGAGGAGATG
 ATAAAGATTAACAAGGGTAAACGGTTCAGCAAGCTGTGGATGCTGTTGAAGAGTTCTCAGGAGAGCCA
 AAGGGAAAGACCAGACATCATCCACACTTCTGCTGATGACAAGAATCGGCGTAATTCAGTGAGGAGAG
 AAGTAGGCCAACTCAGGTGATGAGAAACGCAAGCTTAGCCTGTCTGAAGGAAGGTGAAGAAGAATG
 GGAGAAGGAAAGAAGAGGGTGACTTCAGGCTCTGCAGACAGAGGCTCAAATGCCTTAAAGAGCCCAAG
 AGCAAAGTCCCCGAAGCGGGTTCGGCCCCAAAGGATGAGAAGGACCTACCATCCTGAGTCTAGCAC
 TGTAAAGGGGATGATGGCTGGACCGATGGCTGCATTTAAATGGCAGCCAACAGCGACCGAGCCAGTCAAA
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 TCACAAAGAAGTTGAAAATATGTGAAGAGGAACTGGTTCACCTCCATCCAGGCAGCAGACAGCACAGC
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 TTCTACCTGAAATACATTAGAAGGATCTCCGCTGGCCATTGCATTGGGTGATGCAGTCAACACCCCCA
 CTCCCATGGCAGCTGCAGCCAATGAGGTATACAAAAGAGCCAAGGCACTGGACAGTCTGACAATGATAT
 GTCTGCCGTGTACCGAGCCTACATACAC

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208693 protein sequence
 Red=Cloning site Green=Tags(s)

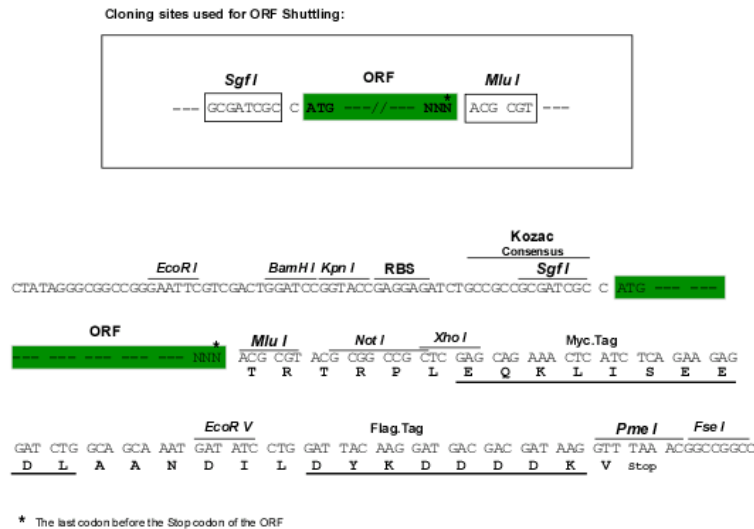
MAAVSLRLGDLVWGKLGRYPWPWKIVNPPKDLKKPRGKKCFVKKFFGTEDHAWIKVEQLKPYHAHKEEM
 IKINKGRFQQAVDAVEEFLRRAGKDKTSSHTSADKNRRNSSEERSRPNSGDEKRKLSLSEGVKVKNM
 GEGKKRVTSAGDRGSKCLKRAQEQSPRKGRPPKDEKDLTIPESSTVKGMAGPMAAFKWQPTATEPVK
 DADPHFHHFLLSQTEKPAVCYQAITKKLKICEEETGSTSIQAADSTAVNGSITPTDKKIGFLGLGLMGSG
 IVSNLLKMGHVTVWNRATKEGARLGRTPAEVVSTCDITFACVSDPKAAKDLVLGPGSVLQGIRPGKCY
 VDMSTVDADTVTELAQVIVSRGGRFLEAPVSGNQQLSNDGMLVILAAGDRGLYEDCSSCFQAMGKTSFFL
 GEVGNAAKMMLIVNMVQGSFMATIAEGLTLAQVTGQSQTLLDILNQQLASIFLDQKCQNILQGNFKPD
 FYLKYIQKDLRLAIALGDAVNHTPMAAAANEVYKRAKALDQSDNDMSAVYRAYIH

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-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](#)

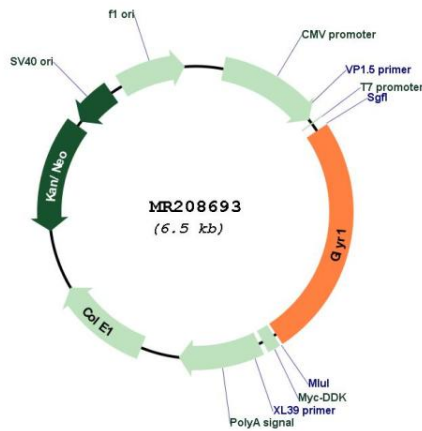
RefSeq Size: 3347 bp

RefSeq ORF: 1641 bp

Locus ID: 74022

UniProt ID:	<u>Q922P9</u>
Cytogenetics:	16 2.49 cM
MW:	59.7 kDa
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 MR208693