

Product datasheet for **MG222208**

Rfx4 (NM_001024918) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rfx4 (NM_001024918) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rfx4
Synonyms:	4933412G19Rik; NYD-sp10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG222208 representing NM_001024918
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCATTGTGGTTACTGGAGGAACCCGACATGGATTCCACAGAGAGCTGGATTGAAAGATGTCTCAATG
AAAGCGAGAATAAACGCTATTCCAGTCACACATCTCTGGGAATGTGTCTAATGATGAAAATGAGGAAAA
AGAAAATAACAGAGCATCCAAGCCCCACTCCACGCCGGCCACCCTGCAATGGCTGGAGGAAAATATGAG
ATTGCTGAGGGCGTCTGCATCCCCCGCAGCGCCCTCTACATGCACTACCTGGATTCTGTGAGAAGAACG
ACACTCAGCCTGTCAATGCTGCCAGCTTTGGGAAGATCATAAGGCAGCAGTTTCTCAGCTAACCACCAG
AAGACTCGGGACCCGAGGACAGTCAAAGTACCATTACTATGGCATAGCGGTGAAGGAGAGCTCCCAGTAT
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AGACGGTGGCATATTCTCCCGGTCCAAGCTTGGGACATTGCTGCCAGACTTTCAAACGTCAAAGACCT
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GGATGCCGCCCCACATGCTGCCCGTGTAGGCTCTCCACGGTGGTGAACATCGTGGGTGTGTGTGACTC
CATCCTCTACAAAGCCATCTCCGGTGTGTTGATGCCACGGTGTGCAGGCGTTGCCGGACAGCTTAACT
CAGGTGATCCGAAAGTTTGCCAAGCAGCTGGACAGTGGCTGAAAGTGGCTCTCCACGATCTCCCGAAA
ACCTGAGAAACATCAAATTTGAATTATCAAGGAGGTTTTCCCAAATCCTAAGGAGGCAAACATCGCTGAA
CCATCTGTGCCAGGCATCTGAACGGTATCCACAGTGCAGACATCACGTTCCAGATGCTGGAGGACTGG
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GCAGACTCATCCAGTTGTACCAGGATTTGACCACCTGCTGGAGGAACAGTCCCCCATCGAGTCTTA
CATAGAATGGCTGGATACCATGGTAGACCGATGCGTTGTAAAGGTGGCTGCCAAGAGACAAGGGTCTCTG
AAGAAAAGTAGCCCAACAGTTCCTGCTGATGGTCTTGTCTTGGTACGAGGGTATCCGGGACATGACCT
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GAGCTATGGCAACCAGCATCCTCACCCACTGCAGAACCAGTATCCAGCCTTGCCTCATGACACAGCCATC
TCTGGGCTCTCCACTATTTCCCTTACCACAGGAGCTCTGCCAGTACCCTTTCAATAGCCCCACTTCCA
GGATGGAACCTTGTGATGAGCAGTACTCCAGGCTGCATCCTACCCAGTACTCCCGATGGCCAGA
GGTGCCGACTGCCAACGCATGCTACACAAGCCATCTGTGCATCCACGAGGTATGGAACTCTAGTGAC
ATGTACACCCCGCTGACCACGCGCAGGAATCTGAGTATGAGCACATGCAACACTTCTCTGGCTTGTCT
ACATCAACGGAGAGGCCCTCCACTGGATGGGCTAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG222208 representing NM_001024918
 Red=Cloning site Green=Tags(s)

MHCGLLEEPDMDSTESWIERCLNESENKRYSSHTSLGNVSNDENEEKENNRASKPHSTPATLQWLEENYE
 IAEGVCIPRSALYMHYLDFCEKNDTQPVNAASFVKIIRQQFPQLTTRRLGTRGQSKYHYGGIYAVKSSQY
 YDVMYSKKGAAWVSETGKREVTKQTVAYSPRSKLGTLPLDFPNVKDLNLPASLPEEKVSTFIMMYRTHCQ
 RILDTVIRANFDEVQSFLHFWQGMPPHMLPVLGSSTVNVIVGVCDSILYKAISGVLMPVTLQALPDSL
 QVIRKFAKQLDEWLKVALHDLPENLRNIKFELSRRFSQILRRQTSLNHLQASRTVIHSADITFQMLEDW
 RNVDLSSITKQTLTYMEDSRDEHRLIIQLYQEFDHLLLEEQSPIESYIEWLDTMVDRCVVKAQRQGS
 KKVAQQFLMWSCFGTRVIRDMLHSAFSGFHLIHLMFDDYVLYLLESLHCQERANELMRAMKGEEST
 AEAQEEIILTEATPPTSPGSPFSPAKSATSVEVPPPSSPVSNPSPEYTLSTAGAMQSYTWSLTYVT
 AAGSPAENSQQLPCMRSTHMPSSSVTHRIPVYSHREEHGYTGSYNYGSYGNQHPHPLQNQYPALPHDTAI
 SGPLHYSYPYHRSSAQYFNSPTSRMEPCLMSSTPRLHPTVTPRWPEVPTANACYTSPSVHSTRYGNSSD
 MYTPLTTRRNSEYEHMQHFPGFAYINGEASTGWAK

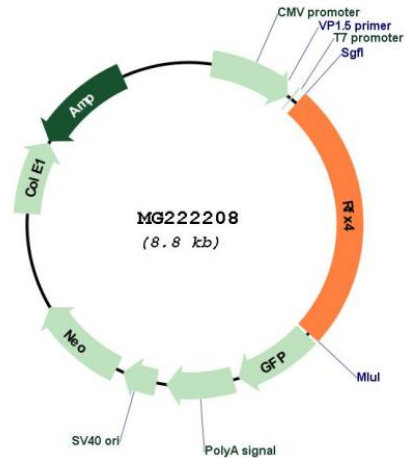
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:


ACCN: NM_001024918

ORF Size: 2205 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_001024918.1](#), [NP_001020089.1](#)

RefSeq Size: 3940 bp

RefSeq ORF: 2208 bp

Locus ID: 71137

UniProt ID: [Q7TNK1](#)

Cytogenetics: 10 C1

Gene Summary: Isoform 1: Transcription factor that plays a role in early brain development. May activate transcription by interacting directly with the X-box. May activate transcription from CX3CL1 promoter through the X-box during brain development.[UniProtKB/Swiss-Prot Function]