

Product datasheet for **MG215034**

Fam114a2 (NM_026342) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fam114a2 (NM_026342) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Fam114a2
Synonyms:	1810073G14Rik; 9030624B09Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG215034 representing NM_026342
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTCAGATAAGGATCCTCCAGAGTCTCCAGTGGTAACCGGAGTAGCTTCGACCCTAAAGATGAGAACT
 GTGAGCCAGTGGAGAAGCCAGAGGATAAATCTCAGCCTGTAGTGTCCACCGGAAAAGACCAGAGACCAA
 ACCTTCCAGTGACCTTGAGGCTTCTGCTCTTCTGCTCAGGAGACTGCTTCTAAAGATGTACCTCAGACT
 GGGTGGGTTATTGGGCGAGTTGGGGCAAGTCTGCTCTCCTCAGCCTCAGCTACGGTAGCTACAGTAG
 GACAAGGTATTTCAAATGTCATTGAGAAGGCAGAGACTTCTTTGGGATTCCTAGCCCCACTGAAATTTT
 AGCTGAAGTCAAGCAAGCAGCAGGAGAAAAAATGCTGGTGAATGGAAGCTTACTAGTGGCTGCACCA
 TTCGGGATGCTCTCGACCATCTACAGCTGTGCAGAGCACGGGCAAGAGCGTTATCAGTGGGGCTTGG
 ATGCCTTGAATTCAATTGGGAAGAAGACAATGGATGTCATAGCAGAAGGGGACCCTGGATTTAAAGAAC
 CAAGGGCCTGATGAATCGGACTTCTACGCTGTCTCAGGTTTTACGAGAGGCAAAGGATAAAGAAGAGCAG
 CGGCCTTCCAATGAAGTAAACATGGAAACAGACAAGAAAACCTATTATGGGCTACTCTTTGATGAGTTTC
 AAGGCCTTTCACATCTAGAAGCTCTGGAGATGCTTTCCGAGAAAAGTGAGATAAAGGTGAAATCTATTCT
 TAGTTCTCTGAGTGGAGAAGAACTACAGACAACACTAGACTTGTAGCTAGAGCAGCTCAAAGAAGTGTTC
 CTAGCAGAGTTCTGTGAGGAAGAGGAGGAGAGACAAGGGGATGACAATTTTACCAAGGAGATAACAG
 ATCTGTTTGCTCAGCTTACGCTCTCTCCGACCAGAGAAGCTTCCAGGGCAAGAAATACAGCCTACAA
 ATGGATCAGAACATCTCTGGCTAGGCCAGTAGCAGAGAAAAGAAGGAGAAAAAGAGTCGGAGGCCAGGA
 AATACCGAGGAAGCCAGAAACATTCAATAGAGGATATCCATGCATTTGCAATCCGGAGCTTAGCAGAGT
 TGACTGCCTGCTCAATAGAATTGTTCCACAAAACAGCAGCATTGGTTTTGCATGGCCAGAAGCAGGAGGT
 GACAGCCTTAGAGAGGAGCCAGACTCTCTCCAGATGACAGTCATGCTGTGTAAGACCTGGCCTCGCTG
 TCTAAAGAGTTTACCACCTGCCTGACCACAGCTGGGGTCAGAGAGAAGGCAGATGTTCTTAAATCCAGTCA
 TCACTGCAGTGTCTTAGAGGCCTCAAACAGCGCCTTTACATTCAAGATGCCTTCCAACCTCCTCCTGCC
 TGTGCTGCAGATCTCTCATCGAGAGCAAGACAGAGTATCCACGTGTGAGCCACAGTCCAGAGACCTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG215034 representing NM_026342
 Red=Cloning site Green=Tags(s)

MSDKDPPEPVVTVASTLKDENCEPVEKPEDKSQPVVSTRKRPETKPSDLEASALPAQETASKDVPQT
 GWGYWGSWGKSLSSASATVATVGQGISNVIEKAETSLGIPSPTEISAEVKQAAGEKNAGENGSLVAAP
 FGMLSTISTAVQSTGKSVISGGLDALEF IGKKTMDVIAEGDPGFKRTKGLMNRTSTLSQVLREAKDKEEQ
 RPSNEVTMETDKKTHYGLLDFDEFQGLSHLEALEMLSRESEIKVKSILSSLGSEELQTRLELEQLKEVFS
 LAEFCEEEEEERQDDNFKEITDLFAQLHVSSRPEKLARARNTAYKWIRTSLARPVAEKEEKEESEAG
 NTEEAQKHSIEDIHAFAIRSLAELTACSIELFHKTAALVLHGQKQEVTALETSQTLTSMQTVMLCKDLASL
 SKEFTTCLTTAGVREKADVLNPVITAVFLEASNSASYIQDAFQLLLPVLQISLIESKTESSTCEPQSRDL

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_026342

ORF Size: 1470 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_026342.3](#), [NP_080618.1](#)

RefSeq Size: 2590 bp

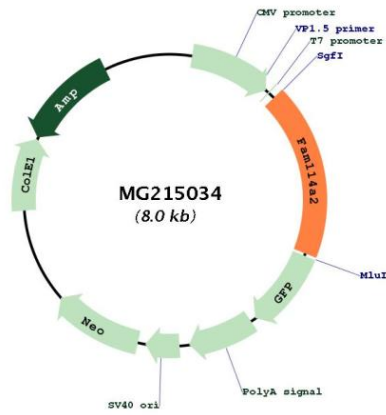
RefSeq ORF: 1473 bp

Locus ID: 67726

UniProt ID: [Q8VE88](#)

Cytogenetics: 11 B1.3

Product images:



Circular map for MG215034