

Product datasheet for **MG202457**

Fam213a (NM_027464) Mouse Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Fam213a (NM_027464) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Fam213a |
| Synonyms: | 5730469M10Rik; Adrx; AU040822; Pamm |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >MG202457 representing NM_027464 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGTATGTGGTCCATCGGTGTGGGAGCTGTGGGGCCGCTGCTGTGGCACTGCTCCTGGCCAACACAG
ACATGTTTCTGTCCAAGCCCGAAAAGCAGCACTGGAATATTTGGAAGACATAGACCTGAAAACACTGGA
GAAAGAACCAAGGACATTCAAAGCAAAGGAGCTGTGGGAGAAGAACGGGGCTGTGATTATGGCTGTACGC
AGGCCAGGCTGCTTTCTCTGCCGAGCGGAAGCAGCAGACCTGATGTCCTTGAAGCCCAAGTTGGATGAGC
TAGGTGTCCTCTCTATGCGGTGGTGAAGGAGCAGGTGAAGAGAGAAGTGAAGATTTCCAACCTTACTT
CAAAGGGGAAATCTTCTGGATGAAAAGAAAAATTCTATGGTCCAGAGAGCGGAAGATGATGTTTCATG
GGCCTCATCCGATTGGGGGTGTGGTATAACTCCTTTCGAGCCTGGAATGGAGGCTTCTCTGGAAACCTAG
AAGGCGAAGGCTTCATCCTTGGAGGAGTTTTTGTGATAGGATCTGAAAACAGGGCATCCTTCTTGAGCA
CCGAGAAAAAGAAATTTGGAGACAGAGTGAACCCACTCTCTGTTCTGGAGGCTGTAAGAAAAATCAAGCTA
CAGACTCCAGCGTCCGGGAGAAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG202457 representing NM_027464
 Red=Cloning site Green=Tags(s)

MGMWSIGVGVAGAAVALLLANTDMFLSKPRKAALEYLEDIDLKLEKEPRTFKAKELWEKNGAVIMAVR
 RPGCFLCRAEAADLMSLKPKLDELGVPL YAVVKEQVKREVEDFQPYFKGEIFLDEKKKFGPERRKMMFM
 GLIRLVWYNSFRAWNGGFSGNLEGEGLILGGVFVIGSGKQGILLEHREKEFGDRVNPLSVLEAVKKIKL
 QTPASGRS

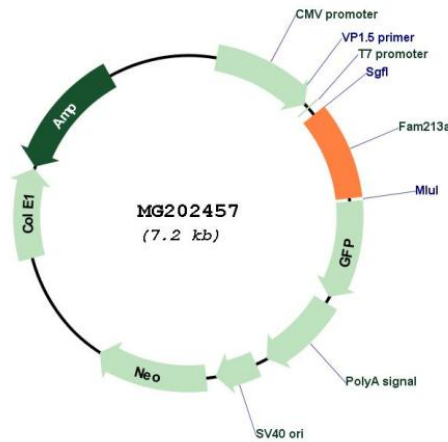
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_027464

ORF Size: 654 bp

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|-------------------------------|---|
| 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: | <ol style="list-style-type: none">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_027464.4 |
| RefSeq Size: | 1539 bp |
| RefSeq ORF: | 657 bp |
| Locus ID: | 70564 |
| UniProt ID: | Q9CYH2 |
| Cytogenetics: | 14 B |
| Gene Summary: | Involved in redox regulation of the cell (By similarity). Acts as an antioxidant (By similarity). Inhibits TNFSF11-induced NFKB1 and JUN activation and osteoclast differentiation (By similarity). May affect bone resorption and help to maintain bone mass (By similarity). Acts as a negative regulator of macrophage-mediated inflammation by inhibiting macrophage production of inflammatory cytokines, probably through suppression of the MAPK signaling pathway (PubMed:26438880).[UniProtKB/Swiss-Prot Function] |