

Product datasheet for MR202457

Fam213a (NM_027464) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fam213a (NM_027464) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Fam213a
Synonyms:	5730469M10Rik; Adrx; AU040822; Pamm
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR202457 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGTATGTGGTCCATCGGTGTGGGAGCTGTGGGGCCGCTGCTGTGGCACTGCTCCTGGCCAACACAG
ACATGTTTCTGTCCAAGCCCCGAAAAGCAGCACTGGAATATTTGGAAGACATAGACCTGAAAACACTGGA
GAAAGAACCAAGGACATTCAAAGCAAAGGAGCTGTGGGAGAAGAACGGGGCTGTGATTATGGCTGTACGC
AGGCCAGGCTGCTTCTCTGCCGAGCGGAAGCAGCAGACCTGATGTCCTTGAAGCCCAAGTTGGATGAGC
TAGGTGTCCCTCTCTATGCGGTGGTGAAGGAGCAGGTGAAGAGAGAAGTGAAGATTTCCAACCTTACTT
CAAAGGGGAAATCTTCTGGATGAAAAGAAAAATTCATGGTCCAGAGAGCGGAAGATGATGTTTCATG
GGCCTCATCCGATTGGGGGTGTGGTATAACTCCTTTCGAGCCTGGAATGGAGGCTTCTCTGGAAACCTAG
AAGGCGAAGGCTTCATCCTTGGAGGAGTTTTTGTGATAGGATCTGAAAAACAGGGCATCCTTCTTGAGCA
CCGAGAAAAAGAATTTGGAGACAGAGTGAACCCACTCTCTGTTCTGGAGGCTGTAAGAAAAATCAAGCTA
CAGACTCCAGCGTCCGGGAGAAGC

ACGCGTACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR202457 protein sequence
Red=Cloning site Green=Tags(s)

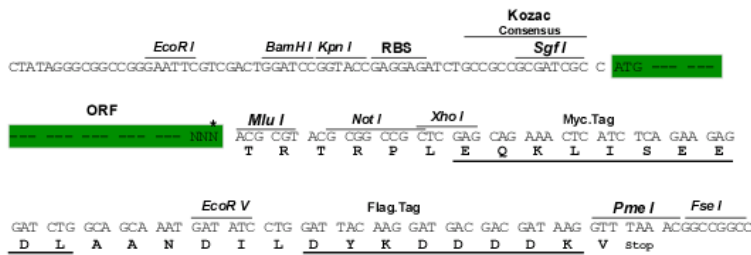
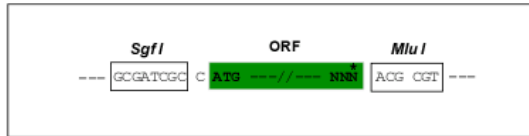
MGMWSIGVGVGAAVAALLLANTDMFLSKPRKAALEYLEDIDLKTLEKEPRTFKAKELWEKNGAVIMAVR
 RPGCFLCRAEAADLMSLKPFLDELGVPL YAVVKEQVKREVEDFQPYFKGEIFLDEKKKFYGPERRKMMFM
 GLIRLGWVYNSFRAWNGGFSGNLEGEGLGGVFIGSGKQGILLEHREKEFGDRVNPLSVLEAVKKIKL
 QTPASGRS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM_027464

ORF Size: 657 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_027464.4](#)

RefSeq Size: 1537 bp

RefSeq ORF: 657 bp

Locus ID: 70564

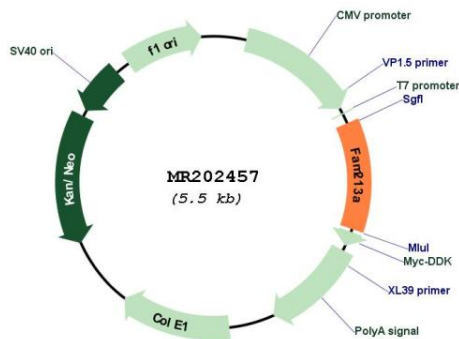
UniProt ID: [Q9CYH2](#)

Cytogenetics: 14 B

MW: 24.4 kDa

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]

Product images:



Circular map for MR202457