

Product datasheet for **RR204459**

Fam213b (NM_001108697) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Fam213b (NM_001108697) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Fam213b
Synonyms: RGD1308251
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR204459 representing NM_001108697
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGC**C

ATGAGTACGCTGGACCTTGGTCGCGTAGGAGCGTGTGTCTTGAAGCATGCAGTTACTGGAGAGGCCGTGG
 AGCTGCGGAGCCTATGGCAGGAGAAAGCTTGTGTGGTGGCCGGTCTGCGACGCTTCGGCTGCATGGTGTG
 CCGCTGGATCGCCAGGACCTCAGCAACCTCCGGGCATCCTGGACAAAACGATGTGCGCCTAGTGGGC
 ATAGGGCCTGAAGCCCTGGGTCTGAGGAGTTTCTGGATGGTGGTTACTTCTCAGGAGAAGCTTACCTTG
 ATGAGAGCAAGCAATCTATAAGGAGCTGGGCTTCAAGAGGTACAACAGCTTAAGCATCTTGCCAGCTGC
 CCTGGGAAAACCTGTTTCGTGATGTAGCCTCCAAGGCTAAGGCTGTTGGCATCCAGGGGAACCTGTCTGGT
 GACCTGCTGCAAAGTGGAGGGCTGCTGGTGGTCAGCAAGGGTGGCGACAGGGTCTGTTGCACCTTCATCC
 AGAGTTCCCCGGGTGACTACGTTCCCCAGGAGAACATCCTGCAGGCCTTGGGTATCTCTGCAGAGGTTTG
 CTCAGCAAGCCACCCAGTGTGATGAAGAGGTGTGTGGGAGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR204459 representing NM_001108697
 Red=Cloning site Green=Tags(s)

MSTLDLGRVACVLKHAVTGEAVELRSLWQEKACVVAGLRRFGCMVCRWIAQDLNLRGILDQNDVRLVG
 IGPEALGLQEFLDGGYFSGELYLDESKQIYKELGFKRYNSLSILPAALGKPVPRDVASKAKAVGIQNLSSG
 DLLQSGGLLVVSKGGDRVLLHF IQSSPGDYVPQENILQALGISAEVCSKPPQCDEEVCGR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

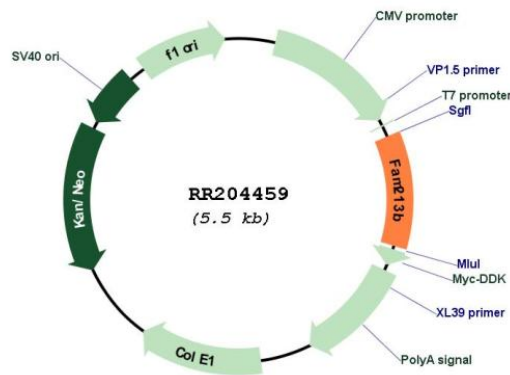


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001108697

ORF Size: 603 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_001108697.1](#), [NP_001102167.1](#)

RefSeq Size: 807 bp

RefSeq ORF: 606 bp

Locus ID: 362676

UniProt ID: [D3ZVR7](#)

Cytogenetics: 5q36

MW: 21.6 kDa

Gene Summary: Catalyzes the reduction of prostaglandin-ethanolamide H(2) (prostamide H(2)) to prostamide F(2alpha) with NADPH as proton donor. Also able to reduce prostaglandin H(2) to prostaglandin F(2alpha) (By similarity).[UniProtKB/Swiss-Prot Function]