

Product datasheet for **RN215873**

Fam19a5 (NM_001191991) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Fam19a5 (NM_001191991) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Fam19a5
Synonyms:	RGD1562115; Tafa-5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN215873 representing NM_001191991 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGCCATCGCCAGGACCAGCAGCCGGCAAGATGCGACCGCCCTGCCAGCATGTCCTCAACTTTTT
GGGCATTCATGATCCTGGCCAGCCTGCTCATCGCCTACTGCAGTCAGCTGGCCGCTGGAACCTGTGAGAT
TGTGACCCCTAGACCGGGACAGCAGCCAGCCACGGAGGACGATCGCCCGGCAGACAGCAGCTGTGCATGC
AGAAAGGGGCAGATAGCAGGCACACGCGAGCCCGGCCTGCTTGTGTGGACGCTCGAATTATCAAGACAA
AGCAGTGGTGTGACATGCTTCCTTGCCTGGAGGGGGAAGGCTGTGACTTGTTAATCAACCGGTCAGGCTG
GACTTGCACACAGCCAGGAGGGCGGATAAAGACCACCACGGTCTCT**GATGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001191991
Insert Size:	399 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).


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OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<u>NM_001191991.1, NP_001178920.1</u>
RefSeq Size:	1827 bp
RefSeq ORF:	399 bp
Locus ID:	500915
UniProt ID:	<u>M0R7X9</u>
Cytogenetics:	7q34
Gene Summary:	Acts as a chemokine-like protein by regulating cell proliferation and migration through activation of G protein-coupled receptors (GPCRs), such as S1PR2 and FPR2 (PubMed:29453251). Stimulates chemotactic migration of macrophages mediated by the MAPK3/ERK1 and AKT1 pathway (By similarity). Blocks TNFSF11/RANKL-induced osteoclast formation from macrophages by inhibiting up-regulation of osteoclast fusogenic and differentiation genes (By similarity). Stimulation of macrophage migration and inhibition of osteoclast formation is mediated through the GPCR FPR2 (By similarity). Acts as a adipokine by negatively regulating vascular smooth muscle cell (VSMC) proliferation and migration in response to platelet-derived growth factor stimulation via GPCR S1PR2 and G protein GNA12/GNA13-transmitted RHOA signaling (PubMed:29453251). Inhibits injury-induced cell proliferation and neointima formation in the femoral arteries (PubMed:29453251). [UniProtKB/Swiss-Prot Function]