

Product datasheet for RC210293

FNTA (NM_002027) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FNTA (NM_002027) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	FNTA
Synonyms:	FPTA; PGGT1A; PTAR2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC210293 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCCACCGAGGGGTGCGGGAGGCTGCGCAAGGGGGCGAGCCGGGCAGCCGGCGCAACCCCGC
CCCAGCCGCACCCACCGCCGCCAGCAGCAGCACAAGGAAGAGATGGCGCCGAGGCTGGGGAAGCCGT
GGCGTCCCCATGGACGACGGGTTGTGAGCCTGGACTCGCCCTCCTATGTCCTGTACAGGGACAGAGCA
GAATGGGCTGATATAGATCCGGTGCCGAGAATGATGGCCCAATCCCGTGGTCCAGATCATTTATAGT
ACAAATTTAGAGATGTTTATGATTACTTCCGAGCTGCTCCTGCAGCGTGATGAAAGAAGTGAACGAGCTTT
TAAGCTAACCCGGGATGCTATTGAGTTAAATGCAGCCAATTATACAGTGTGGCATTTCGGGAGAGTTCTT
TTGAAGTCACTTCAGAAGGATCTACATGAGGAAATGAACTACATCACTGCAATAATTGAGGAGCAGCCCA
AAAATATCAAGTTTGGCATCATAGGCGAGTATTAGTGAATGGCTAAGAGATCCATCTCAGGAGCTTGA
ATTTATTGCTGATATTCTTAATCAGGATGCAAAGAATTATCATGCCTGGCAGCATCGACAATGGTTATT
CAGGAATTTAACTTTGGGATAATGAGCTGCAGTATGTGGACCAACTTCTGAAAGAGGATGTGAGAAATA
ACTCTGTCTGGAACCAAGATACTTCGTTATTTCTAACACCCTGGCTACAATGATCGTGTCTGATTGGA
GAGAGAAGTCCAATACACTCTGGAATGATTAAGTACCACATAATGAAAGTGCATGGAACATTTTG
AAAGGATTTTGCAGGATCGTGGTCTTTCAAATATCCTAATCTGTTAAATCAATTAATGATTGTTACAAC
CAAGTCATAGTTCCCTACCTAATTGCCTTTCTGTGGATATCTATGAAGACATGCTAGAAAATCAGTG
TGACAATAAGGAAGACATTCTTAATAAAGCATTAGAGTTATGTGAAATCCTAGCTAAAGAAAAGGACACT
ATAAGAAAGGAATATTGGAGATACATTGGAAGATCCCTTCAAAGCAAACACAGCAGACAAAATGACTCAC
CAACAAATGTACAGCAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC210293 protein sequence
Red=Cloning site Green=Tags(s)

MAATEGVGEAAQGGEPGQPAQPPPQPHPPPPQQQHKEEMAAEAGEAVASPMDDGFVSLDSPSYVL YRDRA
 EWADIDPVPQNDGPNPVVQIIYSDFRDVYDYFRAVLQRDERSERAFKL TRDAIELNAANYTVWHFRRVL
 LKSLQKDLHEEMNYITAIIEEQPKNYQVWHHRRVLVEWLRDPSQELEFIADILNQDAKNYHAWQHRQWVI
 QEFKLWDNELQYVDQLLKEDVRNNSVWNQRYFVINSNTTGYNDRAVLEREVQYTLEMIKLVPHNESAWNYL
 KGILQDRGLSKYPNLLNQLLDLQPSHSSPYLIAFLVDIYEDMLENQCDNKEDILNKALELCEILAKEKDT
 IRKEYWRYIGRSLQSKHSTENDSPTNVQQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6832_a05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_002027

ORF Size: 1137 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_002027.3](#)

RefSeq Size: 1710 bp

RefSeq ORF: 1140 bp

Locus ID: 2339

UniProt ID: [P49354](#)

Cytogenetics: 8p11.21

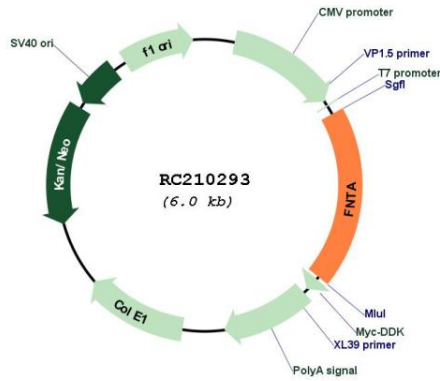
Domains: PPTA

Protein Families: Druggable Genome

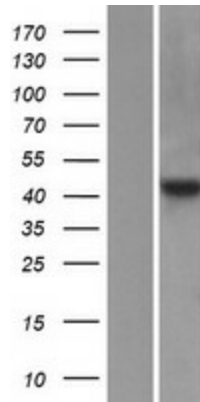
MW: 44.4 kDa

Gene Summary: Prenyltransferases can attach either a farnesyl group or a geranylgeranyl group in thioether linkage to the cysteine residue of proteins with a C-terminal CAAX box. CAAX geranylgeranyltransferase and CAAX farnesyltransferase are heterodimers that share the same alpha subunit but have different beta subunits. This gene encodes the alpha subunit of these transferases. Alternative splicing results in multiple transcript variants. Related pseudogenes have been identified on chromosomes 11 and 13. [provided by RefSeq, May 2010]

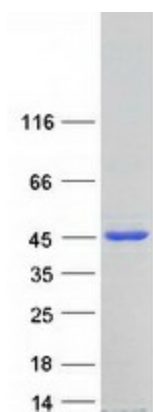
Product images:



Circular map for RC210293



Western blot validation of overexpression lysate (Cat# [LY419578]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210293 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified FNTA protein (Cat# [TP310293]). The protein was produced from HEK293T cells transfected with FNTA cDNA clone (Cat# RC210293) using MegaTran 2.0 (Cat# [TT210002]).