

Product datasheet for **RG210293**

FNTA (NM_002027) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	FNTA (NM_002027) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	FNTA
Synonyms:	FPTA; PGGT1A; PTAR2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210293 representing NM_002027 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCCACCGAGGGGTGCGGGAGGCTGCGCAAGGGGGCGAGCCGGGCAGCCGGCGCAACCCCGC
CCCAGCCGCACCCACCGCCGCCAGCAGCAGCACAAGGAAGAGATGGCGCCGAGGCTGGGAAGCCGT
GGCGTCCCCATGGACGACGGGTTGTGAGCCTGGACTCGCCCTCCTATGTCCTGTACAGGGACAGAGCA
GAATGGGCTGATATAGATCCGGTGCCGAGAATGATGGCCCAATCCCGTGGTCCAGATCATTTATAGT
ACAAATTTAGAGATGTTTATGATTACTTCCGAGCTGCTCCTGCAGCGTGATGAAAGAAGTGAACGAGCTTT
TAAGCTAACCCGGGATGCTATTGAGTTAAATGCAGCCAATTATACAGTGTGGCATTTCGGGAGAGTTCTT
TTGAAGTCACTTCAGAAGGATCTACATGAGGAAATGAACTACATCACTGCAATAATTGAGGAGCAGCCCA
AAAATATCAAGTTTGGCATCATAGGCGAGTATTAGTGAATGGCTAAGAGATCCATCTCAGGAGCTTGA
ATTTATTGCTGATATTCTTAATCAGGATGCAAAGAATTATCATGCCTGGCAGCATCGACAATGGTTATT
CAGGAATTTAACTTTGGGATAATGAGCTGCAGTATGTGGACCAACTTCTGAAAGAGGATGTGAGAAATA
ACTCTGTCTGGAACCAAGATACTTCGTTATTTCTAACACCACTGGCTACAATGATCGTGTCTGATTGGA
GAGAGAAGTCCAATACACTCTGGAATGATTAAGTACCACATAATGAAAGTGCATGGAACATTTTG
AAAGGGATTTTGCAGGATCGTGGTCTTTCAAATATCCTAATCTGTTAAATCAATTACTTGATTTACAAC
CAAGTCATAGTTCCCCCTACCTAATTGCCTTTCTGTGGATATCTATGAAGACATGCTAGAAAATCAGTG
TGACAATAAGGAAGACATTCTTAATAAAGCATTAGAGTTATGTGAAATCCTAGCTAAAGAAAAGGACACT
ATAAGAAAGGAATATTGGAGATACATTGGAAGATCCCTTCAAAGCAAACACAGCAGACAAAATGACTCAC
CAACAAATGTACAGCAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG210293 representing NM_002027
 Red=Cloning site Green=Tags(s)

MAATEGVGEAAQGGEPGQPAQPPPQPHPPPQQQHKEEMAAEAGEAVASPMDDGFVSLDSPSYVLYRDRA
 EWADIDPVPQNDGPNPVVQIIYSDKFRDYYDYFRAVLQORDERSERAFKLRDAIELNAANYTVWHFRRVL
 LKSLQKDLHEEMNYITAIIEEQPKNYQVWHRRVLEWLRDPSQELEFIADILNQDAKNYHAWQHRQWVI
 QEFKLWDNELQYVDQLLKEDVRNNSVWNQRYFVINSNTTGYNDRAVLEREVQYTLEMIKLVPHNESAWNYL
 KGILQDRGLSKYPNLLNQLLDLQPSHSSPYLIAFLVDIYEDMLENQCDNKEDILNKALELCEILAKEKDT
 IRKEYWRYIGRSLQSKHSTENDSPTNVQQ

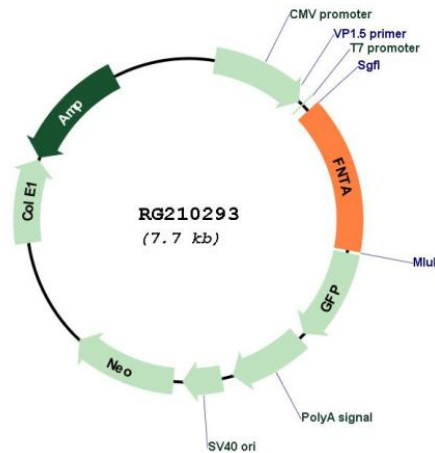
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



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:	<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_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
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]