

Product datasheet for **RG205584**

ENPP5 (NM_021572) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	ENPP5
Synonyms:	NPP-5; NPP5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG205584 representing NM_021572
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGACTTCGAAATTTCTTGGTGTCTTCATACTTGCTGCACTGAGTCTTCAACCACCTTTCTCTCC
 AACCAGACCAGCAAAAGGTTCTACTAGTTTCTTTGATGGATTCCGTTGGGATTACTTATATAAAGTTCC
 AACGCCCCATTTTCATTATATTATGAATATGGTGTTACGTGAAGCAAGTTACTAATGTTTTATTACA
 AAAACCTACCTAACCATTACTTTGGTAAGTGGCCTCTTTGCAGAGAATCATGGGATTGTTGCAATG
 ATATGTTTGATCCTATTCGGAACAAATCTTCTCCTGGATCACATGAATTTATGATTCCAAGTTTTG
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 TCTGCTCAATTCAGCAATGCCAAGGGTGGTCCCTTATACACAGAGTACTATACTCCTCCCTGGTAGTGT
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 TGATTGATTTTTTTGTAATTTTCATTAAGCATTAAATTCACAGTCAAAATACCTGCCTTACAAGATATGCA
 TGCTGAAATAGCTCAACCATTATTACAAGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

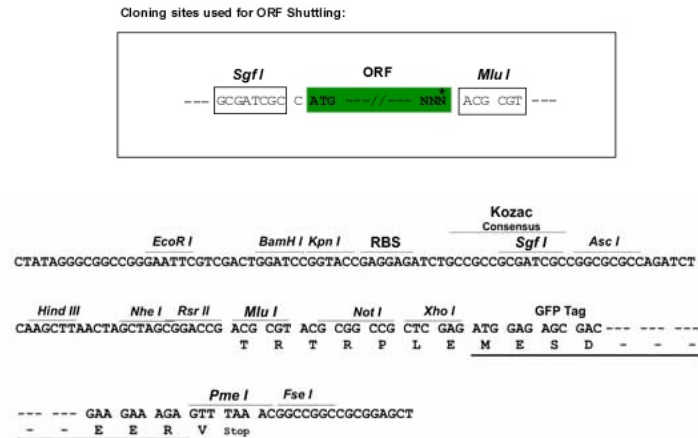
Protein Sequence: >RG205584 representing NM_021572
 Red=Cloning site Green=Tags(s)

MTSKFLLVSFILAAALSSTTFSLQPDQKQVLLVSFDGFRWDYLYKVPTPHFHYIMKYGVHVQVNTNFIT
 KTYPNHYTLVTGLFAENHGIVANDMFDPIRNKSFSLDHMNIYDSKFWEETPIWITNQRAGHTSGAAMWP
 GTDVKIHKRFPHTYMPYNESVSFEDRVAKIEWFTSKEPINLGLLYWEDPDDMGHHLGPDSPLMGPVISD
 IDKKLYLIQMLKKAKLWNTLNLIIITSDHGMTQCSEERLIELDQYLDKDHYTEIDQSPVAAILPKEGKFD
 EYVEALTHAHPNLTVYKKEDVPERWHYKYSRIQPIIAVADEGWHLQNKSDDFLLGNHGYDNALADMHP
 IFLAHGPAFRKNFSKEAMNSTDLYPLLCHLLNITAMPHNGSFWNVQDLLNSAMPVVPYQTSTILLPGSV
 KPAEYDQEGSYPIYFVSLGSIIVVFFVIFIKHLIHSQIPALQDMHAEIAQPLLQA

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_021572

ORF Size: 1431 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:

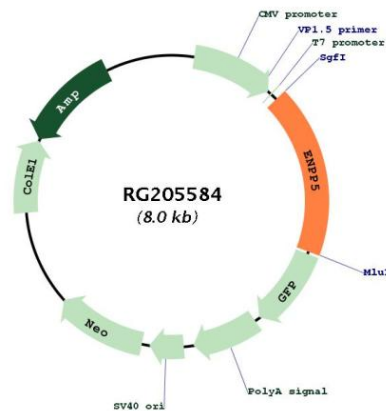
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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_021572.5](#)

RefSeq Size:	2943 bp
RefSeq ORF:	1434 bp
Locus ID:	59084
UniProt ID:	Q9UJA9
Cytogenetics:	6p21.1
Domains:	Phosphodiester
Protein Families:	Secreted Protein, Transmembrane
Gene Summary:	This gene encodes a type-I transmembrane glycoprotein. Studies in rat suggest the encoded protein may play a role in neuronal cell communications. Alternatively spliced transcript variants have been described. [provided by RefSeq, Feb 2014]

Product images:



Circular map for RG205584