

Product datasheet for **RG209441**

CNPY2 (NM_014255) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CNPY2 (NM_014255) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: CNPY2
Synonyms: HP10390; MSAP; TMEM4; ZSIG9
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG209441 representing NM_014255
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAAACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGAAAGGCTGGGGTTGGCTGGCCCTGCTTCTGGGGGCCCTGCTGGGAACCGCCTGGGCTCGGAGGAGCC
AGGATCTCCACTGTGGAGCATGCAGGGCTCTGGTGGATGAACTAGAATGGGAAATTGCCAGGTGGACCC
CAAGAAGACCATTAGATGGGATCTTTCCGGATCAATCCAGATGGCAGCCAGTCAGTGGTGGAGGTGCCT
TATGCCCGCTCAGAGGCCACCTCACAGAGCTGCTGGAGGAGATATGTGACCGGATGAAGGAGTATGGGG
AACAGATTGATCCTTCCACCCATCGCAAGAACTACGTACGTGTAGTGGGCCGGAATGGAGAATCCAGTGA
ACTGGACCTACAAGGCATCCGAATCGACTCAGATATTAGCGGCACCCTCAAGTTTGCCTGTGAGAGCATT
GTGGAGGAATACGAGGATGAACCTATTGAATCTTTTCCGAGAGGCTGACAATGTTAAAGACAACTTT
GCAGTAAGCGAACAGATCTTTGTGACCATGCCCTGCACATATCGCATGATGAGCTA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG209441 representing NM_014255
Red=Cloning site Green=Tags(s)

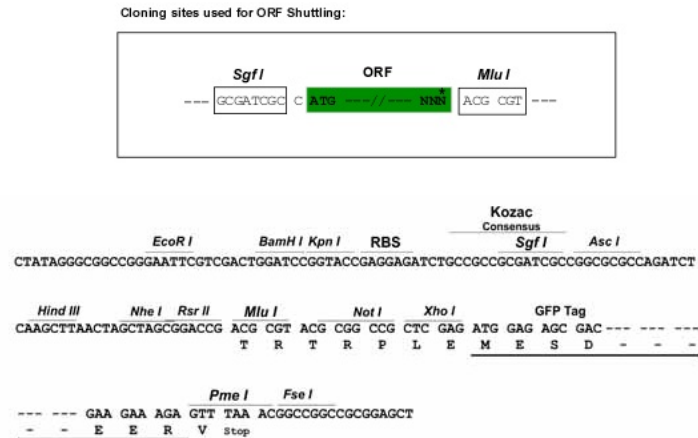
MKGWGWLALLLGALLGTAWARRSQDLHCGACRALVDELEWEIAQVDPKTIQMGSFRINPDGSQSVEVP
 YARSEAHLTELEEICDRMKEYGEQIDPSTHRKNYVRVGRNGESSELDLQGIRIDSDISGTLKFACESI
 VEEYEDELIEFFSREADNVKDKLCSKRTDLCDHALHISHDEL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:


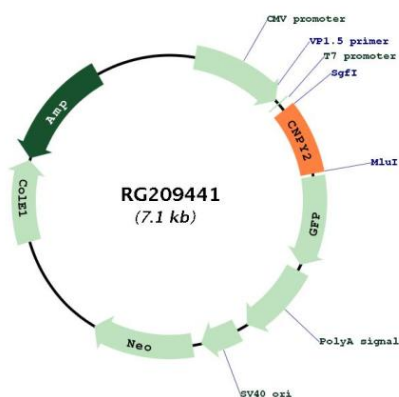
ACCN:	NM_014255
ORF Size:	546 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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_014255.7
RefSeq Size:	1210 bp
RefSeq ORF:	549 bp
Locus ID:	10330

UniProt ID: [Q9Y2B0](#)

Cytogenetics: 12q13.3

Gene Summary: Positive regulator of neurite outgrowth by stabilizing myosin regulatory light chain (MRLC). It prevents MIR-mediated MRLC ubiquitination and its subsequent proteasomal degradation. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG209441