

Product datasheet for RC207155

CNPY4 (NM_152755) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CNPY4 (NM_152755) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CNPY4
Synonyms:	PRAT4B
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC207155 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGACCTGTGCGGTTGGGAATATTGCTTTTCCTTTTTTTGGCCGTGCACGAGGCTTGGGCTGGGATGT
TGAAGGAGGAGGACGATGACACAGAACGCTTGCCAGCAAATGCGAAGTGTGAAGCTGCTGAGCACAGA
GCTACAGGCGGAAGTGTGCGACCGGTCGATCTCGAGAGGTGCTGGAGCTGGGGCAGGTGCTGGATACA
GGCAAGAGGAAGAGACACGTGCCTTACAGCGTTTCAGAGACAAGGCTGGAAGAGGCTTAGAGAATTTAT
GTGAGCGGATCCTGGACTATAGTGTTCAGCTGAGCGCAAGGGCTCACTGAGATATGCCAAGGGTCAGAG
TCAGACCATGGCAACACTGAAAGGCCTAGTGCAGAAGGGGGTGAAGGTGGATCTGGGGATCCCTCTGGAG
CTTTGGGATGAGCCCAGCGTGGAGGTCACATACCTCAAGAAGCAGTGTGAGACCATGTTGGAGGAGTTTG
AAGACATTGTGGGAGACTGGTACTTCCACCATCAGGAGCAGCCCCTACAAAATTTCTCTGTGAAGGTCA
TGTGCTCCAGCTGCTGAAACTGCATGTCTACAGGAACTTGGACTGGAAAGGAGATCACAGATGGGGAA
GAGAAAACAGAAGGGGAGGAAGAGCAGGAGGAGGAGGAGGAAGAGGAGGAAGAGGAGGAGGAGCAAGA
TGACCAAGACAGGAAGCCACCCAACTTGACCGAGAAGATCTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC207155 protein sequence
 Red=Cloning site Green=Tags(s)

MGPVRLGILLFLFLAVHEAWAGMLKEEDDDTERLPSKCEVCKLLSTELQAE LSRTGRSREVLELGGVLDT
 GKRKRHPVPSVSETRLEEALENLCERILDYSVHAERKGSRLRYAKGQSQTMATLKGVLVQKGVKVDLGIPLE
 LWDEPSVEVTYLLKKQCE TML EEFEDIVGDWYFHHQEQPLQNF LCEGHVLPAAETACLQETWTGKEITDGE
 EKTEGEEEQEEEEEEEEEGGDKMTKTGSHPKLDREDL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6518_a11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_152755

ORF Size: 744 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.

RefSeq: [NM_152755.2](#)

RefSeq Size: 1547 bp

RefSeq ORF: 747 bp

Locus ID: 245812

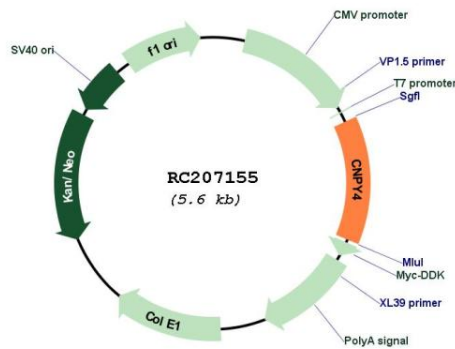
UniProt ID: [Q8N129](#)

Cytogenetics: 7q22.1

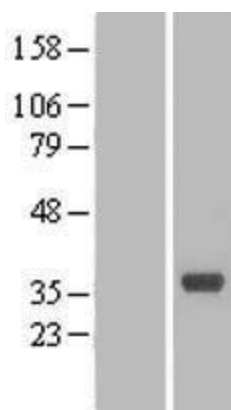
MW: 28.3 kDa

Gene Summary: Plays a role in the regulation of the cell surface expression of TLR4.[UniProtKB/Swiss-Prot Function]

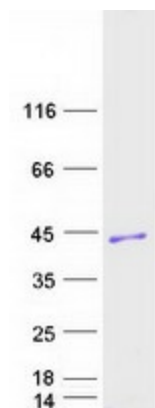
Product images:



Circular map for RC207155



Western blot validation of overexpression lysate (Cat# [LY407305]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207155 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CNPY4 protein (Cat# [TP307155]). The protein was produced from HEK293T cells transfected with CNPY4 cDNA clone (Cat# RC207155) using MegaTran 2.0 (Cat# [TT210002]).