

Product datasheet for **RC205276**

UNC50 (NM_014044) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | UNC50 (NM_014044) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | UNC50 |
| Synonyms: | GMH1; HSD23; PDLs22; UNCL; URP |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >RC205276 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTACCGAGTACTTCAGTGAATTCCTTAGTGCAGGGGAACGGAGTCTTGAATTCAGGGATGCGGCAA
GACACACAGCCGGAGCGAAACGCTACAAATATCTGAGAAGGCTTTCCGCTTCGGCAAATGGACTTTGA
ATTTGCTGCCTGGCAGATGCTCTACCTGTTACATCCCCACAGAGAGTTACAGAAATTTTCATTATCGA
AAACAGACGAAGGACCAGTGGCCAGAGATGACCCTGCTTCTTGGTCTGTTAAGTATCTGGCTCTGTG
TGTCCTACTATAGGATTTGGCTTTGTGCTGGACATGGGATTCCTTGAGACAATAAAGCTTCTCCTTTGGGT
TGTAATCATAGATTGTGTAGGCGTTGGTCTTCTGATAGCAACTTAAATGTGGTTCATCTCAACAAGTAT
TTAGTAAACGACAGAGCAGAGACTATGATGTGGAATGGGGCTATGCTTTTGATGTGCATCTCAATGCTT
TTTATCCACTCCTGGTCATTTTGCATTTTATCCAGCTTTTTTTCATCAACCATGTTATCCTGACAGACAC
ATTTATTGGATATTTAGTTGAAATACCTTATGGTTGGTTGCAGTTGGCTATTATATCTATGTAACCTTC
CTGGGATACAGTGCATTGCCATTTTAAAAATACAGTAATCTTCTGTATCCATTTGCACCTCTGATTC
TGCTCTACGGGCTTCCCTGGCACTGGGATGGAACCTCACCCATACTCTGTCTTTCTATAAGTACAG
AGTGAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC205276 protein sequence
 Red=Cloning site Green=Tags(s)

MLPSTSVNSLVQNGVLNSRDAARHTAGAKRYKYLRRLFRFRQMDFEFAAWQMLYLFTSPQRYRNFHYR
 KQTKDQWARDPAFLVLLSIWLCVSTIGFGFVLDMGFFETIKLLLWVVLIDCVGVLIIATLMWFISNKY
 LVKRQSRDYDVEWGYAFDVHLNAFYPLLVLHF IQLFF INHVIL TDTFIGYLVGNTLWLVAVGYYIYVTF
 LGYSALPFLKNTVILLYPFAPLILLYGLSLALGWNFTHTLCSFYKYRVK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6028_e06.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_014044

ORF Size: 777 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_014044.7](#)

RefSeq Size: 1167 bp

RefSeq ORF: 780 bp

Locus ID: 25972

UniProt ID: [Q53HI1](#)

Cytogenetics: 2q11.2

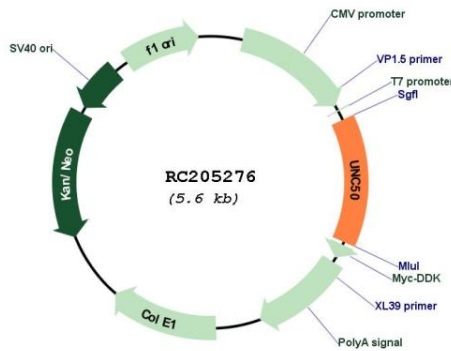
Domains: UNC-50

Protein Families: Transmembrane

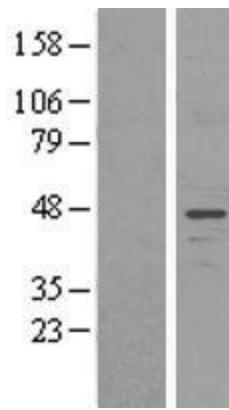
MW: 30.4 kDa

Gene Summary: May be involved in cell surface expression of neuronal nicotinic receptors. Binds RNA (By similarity).[UniProtKB/Swiss-Prot Function]

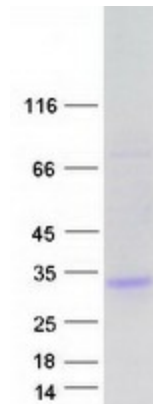
Product images:



Circular map for RC205276



Western blot validation of overexpression lysate (Cat# [LY402272]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205276 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified UNC50 protein (Cat# [TP305276]). The protein was produced from HEK293T cells transfected with UNC50 cDNA clone (Cat# RC205276) using MegaTran 2.0 (Cat# [TT210002]).