

Product datasheet for RC217521

C1orf80 (AIDA) (NM_022831) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C1orf80 (AIDA) (NM_022831) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	C1orf80
Synonyms:	C1orf80
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC217521 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCGGAGGTGACCCGGAGTCTGCTGCAGCGCTGGGGCCAGTTTTAGGAGAGGGCCGACTTCGACT
CTTGGGGCCAGCTGGTGGAGGCGATAGACGAGTATCAGATATTAGCAAGACATCTACAAAAGGAGGCCCA
AGCTCAACACAATAATTCTGAATTCACAGAAGAACAAAAGAAAACCATAGGCAAAATTGCAACATGCTTG
GAATTGCGAAGTGCAGCTTTACAGTCCACACAGTCTCAAGAAGAATTTAACTGGAGGACCTGAAGAAGC
TAGAACCAATCCTAAAGAATATTCTTACATATAATAAAGAATTCCCATTTGATGTTGAGCTGTCCATT
AAGAAGAATTTGGCACCTGGTGAAGAAGAGAATTTGGAATTTGAAGAAGATGAAGAAGAGGGTGGTGT
GGAGCAGGGTCTCCTGATTCTTTCTGCTAGAGTTCCTGGTACTTTATTACCAAGGTTGCCATCGGAAC
CAGGAATGACATTACTACTATCAGAATTGAGAAAATTGGTTTGAAGATGCTGGCAGTGCATCGATCC
CTATATTACAGTTAGTGTAAAGGATCTGAATGGCATAGACTTAACTCCTGTGCAAGATACTCCTGTGGCT
TCAAGAAAAGAAGATACATATGTTCAATTTAATGTGGACATTGAGCTCCAGAAGCATGTTGAAAAATTA
CAAAGGTGCAGCTATCTCTTTGAATTCAAACACTACAAGCCTAAAAAAGGTTTACCAGCACCAAGTG
TTTTGCTTTCATGGAGATGGATGAAATTAACCTGGGCCAATTGTAATAGAACTATACAAGAAACCACT
GACTTTAAAAGAAAGAAATTGCAATTATTGACCAAGAAACCACTTTATCTTCATCTACATCAAACCTTGC
ACAAGGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC217521 protein sequence
Red=Cloning site Green=Tags(s)

MSEVTRSLQLRWGASFRGADFDSWGQLVEAIDEYQILARHLQKEAQAQHNNSEFTEEQKKTIGKIATCL
 ELRSAALQSTQSQEEFKLEDLKKLEPILKNILTYNKEFPFDVQPVPLRRILAPGEEENLEFEDEEEGGA
 GAGSPDSFPARVPGTLLPRLPSEPGMTLLTIRIEKIGLKDAGQCIDPYITVSVKDLNGIDLTPVQDTPVA
 SRKEDTYVHFNVDIELQKHVEKLTGAAIFFEFKHYKPKKRFTSTKCFAFMEMDEIKPGPIVIELYKKPT
 DFKRKKLQLLTKKPLYLHLHQTLHKE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6538_b09.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_022831

ORF Size: 918 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_022831.4](#)

RefSeq Size: 3020 bp

RefSeq ORF: 921 bp

Locus ID: 64853

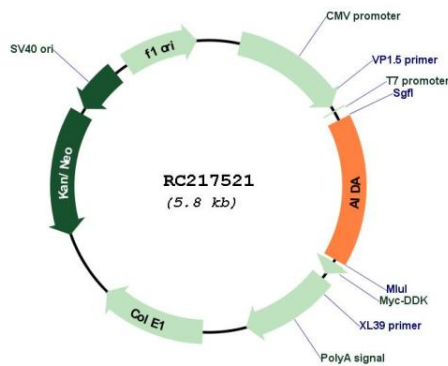
UniProt ID: [Q96BJ3](#)

Cytogenetics: 1q41

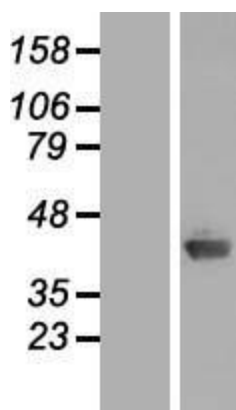
MW: 35 kDa

Gene Summary: Acts as a ventralizing factor during embryogenesis. Inhibits axin-mediated JNK activation by binding axin and disrupting axin homodimerization. This in turn antagonizes a Wnt/beta-catenin-independent dorsalization pathway activated by AXIN/JNK-signaling (By similarity). [UniProtKB/Swiss-Prot Function]

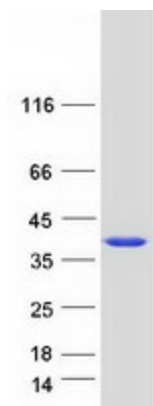
Product images:



Circular map for RC217521



Western blot validation of overexpression lysate (Cat# [LY411545]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC217521 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified AIDA protein (Cat# [TP317521]). The protein was produced from HEK293T cells transfected with AIDA cDNA clone (Cat# RC217521) using MegaTran 2.0 (Cat# [TT210002]).