

## Product datasheet for **RC224331**

### UBXD5 (UBXN11) (NM\_001077262) Human Tagged ORF Clone

#### Product data:

|                           |                                 |
|---------------------------|---------------------------------|
| Product Type:             | Expression Plasmids             |
| Tag:                      | Myc-DDK                         |
| Symbol:                   | UBXD5                           |
| Synonyms:                 | COA-1; PP2243; SOC; SOCI; UBXD5 |
| Mammalian Cell Selection: | Neomycin                        |
| Vector:                   | pCMV6-Entry (PS100001)          |
| E. coli Selection:        | Kanamycin (25 ug/mL)            |

**ORF Nucleotide Sequence:** >RC224331 representing NM\_001077262  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**

ATGAGCTCACCTTTGGCCTCCCTTAGCAAGACCCGAAAAGTGCCCTGCCCTCGGAGCCTATGAATCCTG  
GGAGGCGAGGAATCCGCATCTATGGAGATGAAGATGAGGTGGACATGTTGAGTGATGGGTGTGGCTCAGA  
AGAAAAGATCTCAGTCCCTTCTGCTATGGCGGCATAGGTGCCCTGTGAGTCGGCAAGGGGACTCATTG  
GCGCCCCCTGAGGTGGACTTTGACAGGCTGCTGGCCAGCCTGCAGGATCTTAGTGAGCTGGTGGTAGAGG  
GTGACACCCAAGTGACACCAAGTGCCCGCGGGGCACGGCTGCGTACCCTCGAGCCCATCCCGCTGAAGCT  
CTACCGGAATGGCATCATGATGTTTCGACGGGCCCTTCAGCCCTTCTACGATCCCTCCACACAGCGCTGC  
CTCCGAGACATATTGGATGGCTTCTTCCCTCAGAGCTCCAGCGACTGTACCCCAATGGGGTCCCCTTTA  
AGGTGAGTGACTTGCGCAATCAGGTCTACCTGGAGGATGGACTGGACCCCTTCCAGGCGAGGGCGTGT  
GGTGGGCGAGGAGCTGATGCACAAGGCCTTGGACAGGGTGGAGGAGCACCAGGCTCCAGGATGACTGCT  
GAGAAATTTCTGAACAGGCTCCCCAAGTTTGATCCGGAAGGCGAGGTGATTGACATCCGGGGCCCCA  
TCAGGGACACCTTGCAGAACTGCTGCCATTGCCTGCCCGGATCCAGGAGATTGTTGGTGGAGACGCCAC  
CTTGGCCGCTGAGCGAGAGAGGAGCCAGGAGTCACCAACACGCCGGCACCCCGCTCTCCATGCTGCGC  
ATCAAGTCTGAGAATGGGGAACAGGCCTTCTACTGATGATGCAGCTGACAACACCATTTGGGGACGTGC  
GAGCTCTGCTAGCGCAGGCCAGGGTCATGGATGCCTCTGCCTTTGAGATCTTCAGCACATTCGCCGCCAC  
CCTCTACAGGACGATACACTACGCTGCAGGCTGCAGGCCTTGTGCCAAAGCAGCACTGCTGCTGCGG  
GCACGCCGAGCCCCGAAGTCCAGCCTGAAATTCAGTCTGGTCCCTGTCCCGGTCCCGGTCCCGGCCCA  
GTCCCGGTCCCGGTCCCGGCCCAAGTCCCGGTCCCGGTCCCGGCCCAAGTCCCTGTCTGGACCCAGTCC  
CAGCCCCAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



**Protein Sequence:** >RC224331 representing NM\_001077262  
Red=Cloning site Green=Tags(s)

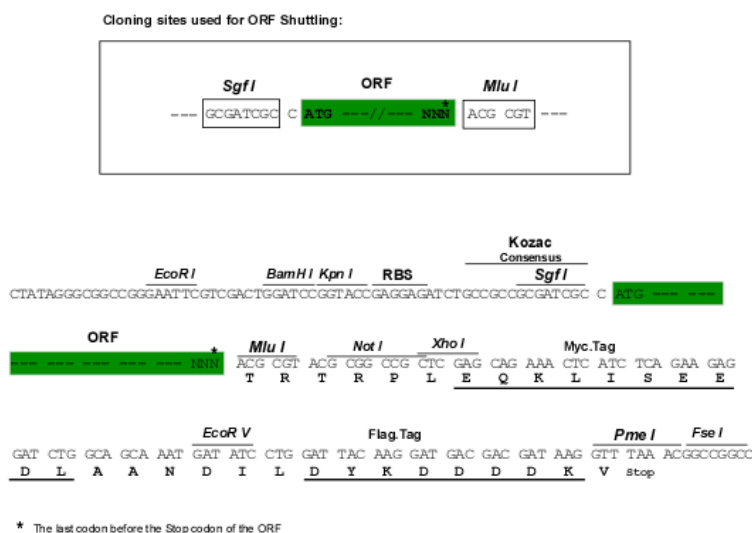
[illegible]

TRTRPLEOKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1398\\_e05.zip](https://cdn.origene.com/chromatograms/ja1398_e05.zip)

**Restriction Sites:** SgfI-MluI

### Cloning Scheme:



ACCN: NM\_001077262

**ORF Size:** 1200 bp

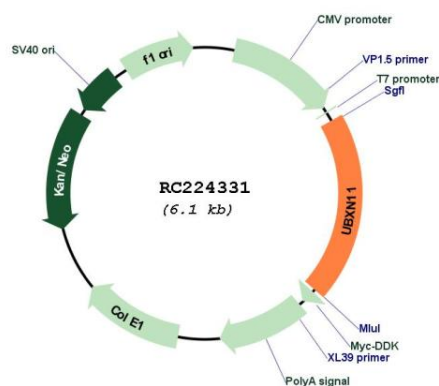
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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.

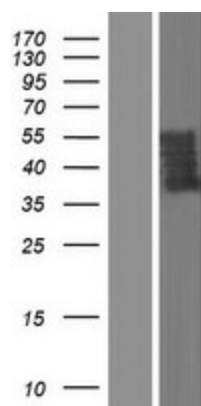
**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>                                                                                                                                                                                                                                                                           |
| <b>Note:</b>                  | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>RefSeq:</b>                | <a href="#">NM_001077262.1</a> , <a href="#">NP_001070730.1</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>RefSeq Size:</b>           | 1384 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>RefSeq ORF:</b>            | 1203 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Locus ID:</b>              | 91544                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>UniProt ID:</b>            | <a href="#">Q5T124</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Cytogenetics:</b>          | 1p36.11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>MW:</b>                    | 43.1 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Gene Summary:</b>          | <p>This gene encodes a protein with a divergent C-terminal UBX domain. The homologous protein in the rat interacts with members of the Rnd subfamily of Rho GTPases at the cell periphery through its C-terminal region. It also interacts with several heterotrimeric G proteins through their G-alpha subunits and promotes Rho GTPase activation. It is proposed to serve a bidirectional role in the promotion and inhibition of Rho activity through upstream signaling pathways. The 3' coding sequence of this gene contains a polymorphic region of 24 nt tandem repeats. Several transcripts containing between 1.5 and five repeat units have been reported. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]</p> |

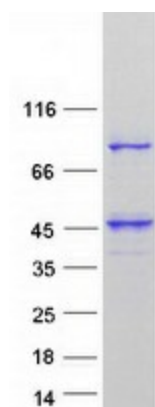
## Product images:



Circular map for RC224331



Western blot validation of overexpression lysate (Cat# [LY421394]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224331 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified UBXN11 protein (Cat# [TP324331]). The protein was produced from HEK293T cells transfected with UBXN11 cDNA clone (Cat# RC224331) using MegaTran 2.0 (Cat# [TT210002]).