

Product datasheet for **RG224034**

UBXD5 (UBXN11) (NM_145345) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	UBXD5
Synonyms:	COA-1; PP2243; SOC; SOCI; UBXD5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence: >RG224034 ORF sequence, codon optimized.
Due to the complexity of NM_145345, the ORF clone is codon optimized for mammalian Expression.
The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTCCTCTCCCTTGCTTCACTGAGCAAACTAGGAAAGTCCTCTGCCATCAGAGCCTATGAATCCGG
GAAGGAGAGGAATTCGCATTTACGGTGATGTACCCGCCTCCCATGATTCGAACTCATGGCCTTCATGAC
CAGAAAGCTTTGGGACCTGGAAACAGCAGGTAAGGCTCAGACCGATGAGATCCTGTCCAAGACCAGAAAG
ATTGCCGCCCTCGAGGACCTGGTTACAGATTTGCGGCCCAACCAGCCGAAGCAACTTTGCAGAGACAAG
AGGAATCTGAAACAATGTGCGTTCTCACTTCAGCAGACGGTCAGGGAATGGAAGAATCTCTTTTGCTACTA
TGGCTCGAGTGGGTGGGAGAACCCATGGATCAGGAAGACAGGCGAGTCTAAACTGTCTCAGAACACGGA
GAAAGAGACTGGATGACAGCTAAAAAGTTCTGGAACCCGGAGACAGTCTGGCACCCCGGAGGTGGATT
TTGACCGCCTCCTGGCTCACTGCAGGACCTCTCCGAGCTGGTGGTAGAGGGTGATACGCAAGTTACCCC
CGTGCCCGGTGCGCACGGCTCCGGACTCTCGAACCAATCCCTCTCAAGTTGTACAGAAACGGGATCATG
ATGTTTGATGGACTTTCCAGCCCTTTATGACCCAAGTACCCAGAGGTGCCTCCGAGATATACTGGACG
GATTTTTCTAGTGAGCTGCACGCGCTTTACCCTACACGGGGTCCGCTCAAGGTGTGCAGATCTGCGGAA
CCAGGTGTACCTCGAAGATGGTCTTGACCTTTTCCGGCGAGGCGCGGTAGTAGGAAGCAACTGATG
CAGAAGGCTCTGGATCGAGTGGAGGAGCACCTTGCACGCCGATGACTGCTAGAAGTTCTGAATCGCT
TGCCCAAGTTTGTATCAGGCAAGGTGAGGTAATTGATATCCGGGGTCCAATTAGAGATACACTGCAGAA
CTGCTGTCCACTGCCTGCCAGAATACAGGAAATCGTGGTGAGACACCAACTCTGGCAGCTGAGAGGGAG
CGAAGTCAGGAAAGTCTTAACACCCCTGCCCTCCACTTAGCATGCTGCGGATCAAGTCCGAGAACGGTG
AACAGGCCTTCTCTTGATGATGCAGCCGACAAACACTATAGGCGATGTACAGGGCACTCTTGCCCGAGGC
TAGGGTCTGATGATGCTCAGCGTTTGAGATCTTCTCAACCTTCCCCCAACACTGTATCAGGACGACACT
CTGACTCTGAGGCCCGCGGTTGGCTCTCTAAGCTCGCTGCTGCTCGGGGACAGCGCGGCTCCCAAT
CCAGTCTCAAGTTACGCGCTTGACCTTGACCTTGCTGGTCCAGGCCCTGCAGACATCTCTGGCCCGGACCTGG
GCCATCCCCAGGCCCGGGGCTGGGCCAGCCCTGTCCCGGGCCTCTCCAAGTCTCAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

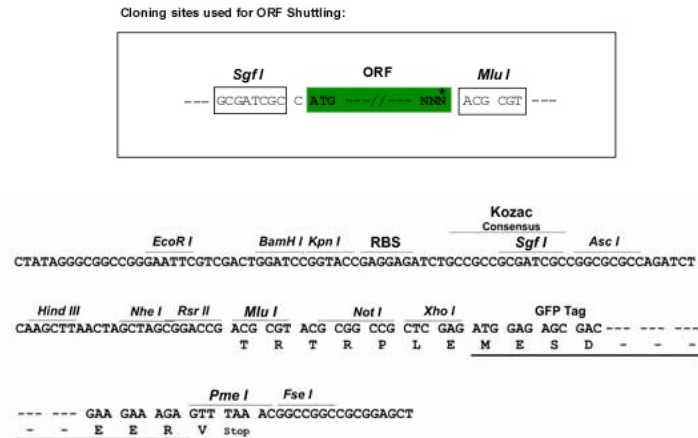
Protein Sequence: >RG224034 representing NM_145345
Red=Cloning site Green=Tags(s)

[illegible]

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_145345

ORF Size: 1461 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_145345.2](#), [NP_663320.2](#)

RefSeq Size: 1864 bp

RefSeq ORF: 1464 bp

Locus ID: 91544

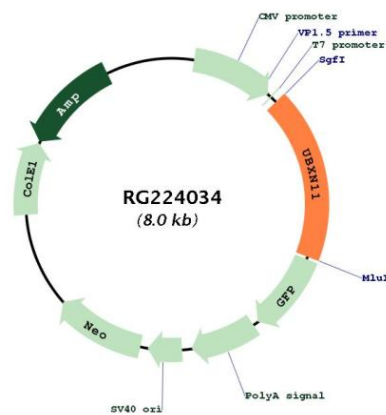
UniProt ID: [Q5T124](#)

Cytogenetics: 1p36.11

Domains: UBX

Gene Summary: 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]

Product images:



Circular map for RG224034