

Product datasheet for **RG211859**

UBXD5 (UBXN11) (NM_183008) 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)



ORF Nucleotide Sequence: >RG211859 ORF sequence, **codon optimized**.
Due to the complexity of NM_183008, 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)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGCTCTCTCTCTGGCCTCTCTGAGCAAAACACGCAAGGTTCTCTGCCTTCTGAACCCATGAACCTG
GTCGAAGAGGAATTGCGATCTATGGAGACGAGGACGAAGTTGATATGCTGAGCGATGGCTGCGGGTCAGA
GGAGAAGATCAGCGTGCCTTCTGTTACGGCGGTATTGGGGCTCCCGTCAGTAGGCAGGTTCTGCAAGC
CATGACTCCGAACCTATGGCCTTTATGACAAGAAAGCTTTGGGATCTGGAACAGCAGGTTAAAGCTCAAA
CTGATGAAATCCTTTCTAAAGACCAGAAGATCGCCGCTTTGAAGATCTCGTACAGACCTTGCAGCCCGCA
TCCTGCTGAGGCAACGCTGCAGCGACAGGAAGAGTTGGAGACTATGTGCGTGCAGCTGCAGCGCCAGGTA
CGAGAGATGGAGCGATTCTTAGCGATTACGGTCTTCACTGGGTGGGCGAACCTATGGACAGGAAGATA
GTGAGTCTAAGACCGTGTCCGAGCAGCGGGAACGGGACTGGATGACAGCTAAAAAATTCTGGAAACAGG
TGACAGCCTTGCTCCGCCAGAAGTAGATTTGATCGACTGCTCGCTCCCTGCAAGACCTTTCCGAGCTC
GTGGTGGAAGGCGATACTCAGGTGACCCAGTGCCTGGCGGCGCCAGGTTGAGGACCTGGAGCCCATAC
CACTGAAACTGTATAGGAACGGCATAATGATGTTTGACGGGCTTTCCAGCCCTTCTACGACCTAGTAC
TCAGCGCTGCTTGAGAGATATCCTGGATGGATTCTTTCCCTCAGAGCTGCAAGACTCTATCCCAATGGC
GTGCCTTTTAAGGTCAGCGATCTCAGAAACAGGTATATCTCGAGGACGGCCTGGACCCATTTCCAGGCG
AAGGACGGGTGCTCGGGCGCCAGCTCATGCACAAAGCCTTGGATCGGGTTGAAGAGCACCCCGGAGTCG
GATGACCGCTGAGAAGTTTCTCAACAGGCTGCCCAAGTTTCGTTATCCGGCAGGGGGAAGTGATAGATATT
CGCGGCCCGATTCCGGGACACTGCAGAATTGCTGCCCTCTGCCAGCGAGAATTGAGGAAATTTGCTGAG
AAACGCTACCTTGCGGCGGAGCGAGAACGAAGTCAGGAGAGCCCTAATACCCCTGCCCAACCACTCAG
CATGCTGAGAATTAAATCCGAAAACGGCGAGCAGGCTTTCTCCTGATGATGCAACCAGACAAACCATC
GGGACGTAAGGGCCCTCCTTGCGCAAGCTCGCGTCATGGATGCGTCTGCTTTGAGATATTTTCCACTT
TTCCCCGACCCCTTACCAGGATGATACCTTACGCTGCAGGCGGCGGACTGGTCCCAAGCAGCCCT
CTTGCTGCGAGCAAGACGAGCTCTAAATCAAGTCTCAAATTCAGCCCCGGCCCTGTCCAGGACCGGGA
CCTGGGCCGAGCCCGGACCCGGCCCTGGACCTTCCCGGGTCCCGGACCGGGCCCTCCCTGTCCCG
GTCCTAGTCCCTCCCCCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

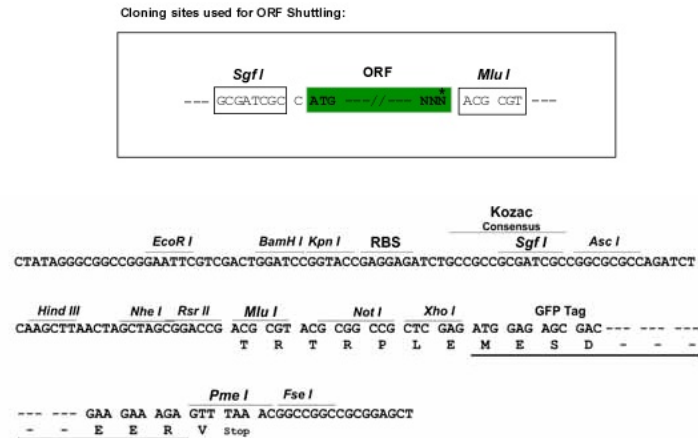
Protein Sequence: >RG211859 representing NM_183008
Red=Cloning site Green=Tags(s)

MSSPLASLSKTRKVLPLSEPMNPGRRGIRIYGEDEVMDLSGCGSEEKISVPSCYGGIGAPVSRQVPAS
HDSSELMFMTKRLWDLEQVKAQTDEILSKDQKIAALEDLVQTLRPHPAEATLQRQEELETMCVQLQRQV
REMERFLSDYGLQWVGPMQDESESKTVSEHGERDWMATAKFWKPGDSLAPPEVDFDRLLASLQDLSEL
VVEGDTQVTPVPGGARLRLLEPIPLKLYRNGIMFDGPFQPFYDPSTQRCLRDILDGFFPSELQRLYPNG
VPFKVSDLRNQVYLEDGLDPFPGEGRVVGRQLMHKALDRVEEHGSRMTAEKFLNRLPKFVIRQGEVIDI
RGPIRDITLQNCCLPARIQEIIVETPTLAAERERSQSPNTPAPPLSMLRIKSENQEAFLMMQPDNTI
GDVRRALLAQARVMDASAFEIFSTFPPTLYQDDTLTLQAAGLVKAAALLRARRAPKSSSLKFSPPGCPGPG
PGPSPGPGPGSPGPGPGSPCPGSPSPQ

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_183008

ORF Size: 1560 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.

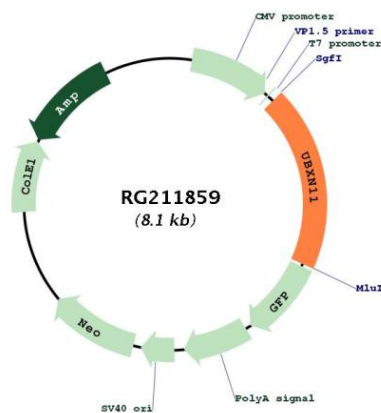
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_183008.2](#), [NP_892120.2](#)

RefSeq Size: 1869 bp
 RefSeq ORF: 1563 bp
 Locus ID: 91544
 UniProt ID: [Q5T124](#)
 Cytogenetics: 1p36.11

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 RG211859