

Product datasheet for **RG238695**

TUBA6 (TUBA1C) (NM_001303114) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TUBA6 (TUBA1C) (NM_001303114) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	TUBA1C
Synonyms:	bcm948; TUBA6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG238695 representing NM_001303114.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGACAGCCTGGTTCAATGGGGTGGAGGAGCTAGGGAGGGATGAGTGCTTTGTGTGCTTGAATTAGAT
CCTTCAAATGGATCCTTTCTGAATGCAAACTGTACATCTCTAACTGGATTCTTATTACTTCACCAGG
ACTCTTCAGCTCCCTGCGCCTTTTAACACATGCACATCCAGCAAAGCAGAGGAGAACCTGGCTGTGAT
TCAAAGCGTGAGTGCATCTCCATCCACGTTGGCCAGGCTGGTGTCCAGATTGGCAATGCCTGCTGGGAG
CTCTACTGCCTGGAACACGGCATCCAGCCCGATGGCCAGATGCCAAGTGACAAGACCATTGGGGGAGGA
GATGATTCTTCAACACCTTCTTCAGTGAACGGGTGCTGGCAAGCATGTGCCCCGGCAGTGTTTGTGA
GACTTGAACCCACAGTCATTGATGAAGTTCGCACTGGCACTTACCGCCAGCTCTCCACCCTGAGCAA
CTCATCACAGGCAAGGAAGATGTCGAATAACTATGCCCGAGGGCACTACACCATTGGCAAGGAGATC
ATTGACCTCGTGTGGACCGAATTCGAAGCTGGCTGACCAGTGACCGGTCTTCAGGGCTCTTGGTT
TCCACAGCTTTGGTGGGGAACTGGTTCTGGGTTACCTCGCTGCTCATGGAACGTCTCTCAGTTGAT
TATGGCAAGAAGTCCAAGCTGGAGTTCTCCATTTACCGGCGCCCCAGGTTTCCACAGCTGTAGTTGAG
CCCTACAACCTCCATCCTACCACCCACACCACCCTGGAGCACTCTGATTGTGCCTTCATGGTAGACAAT
GAGGCCATCTATGACATCTGTGCTAGAAACCTCGATATCGAGCGCCCAACCTACACTAACCTTAACCGC
CTTATTAGCCAGATTGTGTCTCCATCACTGCTTCCCTGAGATTTGATGGAGCCCTGAATGTTGACCTG
ACAGAATTCAGACCAACCTGGTGCCCTACCCCGCATCCACTTCCCTCTGGCCACATATGCCCTGTG
ATCTCTGCTGAGAAAGCCTACCAGAACAGCTTACTGTAGCAGAGATACCAATGCTTGTGAGCCA
GCCAACAGATGGTAAAATGTGACCCTGCCATGGTAAATACATGGCTTGTGCTGTTATACCGTGGT
GACGTGGTCCCAAAGATGTCAATGCTGCCATTGCCACCATCAAACCAAGCGTACCATCCAGTTGTG
GATTGGTGCCCCACTGGCTTCAAGGTTGGCATTAAATACCAGCCTCCACTGTGGTGCCTGGCGGAGAC
CTGGCCAAGGTACAGAGAGCTGTGTGCATGCTGAGCAATACCACAGCTGTTGCCGAGGCCTGGGCTCGC
CTGGACCACAAGTTGACCTGATGTATGCCAAGCGTGCCTTTGTTCACTGGTACGTGGGTGAGGGGATG
GAGGAAGGCGAGTTTTAGAGGCCCGTGGGACATGGCTGCCCTTGAAGAAGATTATGAGGAGGTTGGA
GCAGATAGTGCTGACGGAGAGGATGAGGGTGAAGAGTAT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
  
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Protein Sequence:

>Peptide sequence encoded by RG238695
 Blue=ORF Red=Cloning site Green=Tag(s)

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MTAWFNGVEELGRDECFVCLELDPSNGSFLNAKLYISNWILYFTRTLQLPAPFNTCTSSKSRGEPGCD
SKRECISIHVQAGVQIGNACWELYCLEHGIQPDGQMP SDKTIGGGDDSFNTFFSETGAGKHVPRAV FV
DLEPTVIDEVRTGTYRQLFHPEQLITGKEDAANNYARGHYTIGKEIDLVLDRIRKLADQCTGLQGLV
FHSFGGTGSGFTSLLMERLSVDYGGKSKLEFSIYPAPQVSTAVVEPYNSILTHTTLEHSDCAFMYDN
EAIYDICRRNLDIERPTYNLNRLISQIVSSITASLRFDGALNVDLTEFQTNLVPYRIHFPLATYAPV
ISAEKAYHEQLTVAEITNACFEPANQMVKCDPRHGKYMCCLLYRGDVVPKDVNAAIATIKTKRTIQFV
DWCPTGFKVGINYQPPTVPPGDLAKVQRAVCM LSNTTAVAEAWARLDHKFDL MYAKRAFHVHWYVGE M
EEGEFSEAREDMAALEKDYEVEVGADSADGEDEGEEY
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
  
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Restriction Sites:

SgfI-MluI

ACCN:	NM_001303114
ORF Size:	1557 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).
RefSeq:	NM_001303114.1 , NP_001290043.1
RefSeq Size:	1707 bp
RefSeq ORF:	1560 bp
Locus ID:	84790
Cytogenetics:	12q13.12
Protein Pathways:	Gap junction, Pathogenic Escherichia coli infection
MW:	58.2 kDa
Gene Summary:	Tubulin is the major constituent of microtubules. It binds two moles of GTP, one at an exchangeable site on the beta chain and one at a non-exchangeable site on the alpha chain. [UniProtKB/Swiss-Prot Function]