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Product datasheet for RG205663

GTPBP5 (MTG2) (NM_015666) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GTPBP5 (MTG2) (NM_015666) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GTPBP5
Synonyms:	dJ1005F21.2; GTPBP5; ObgH1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG205663 representing NM_015666
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCACCTGCAAGGTGTTTTTCAGCAAGATTGAGGACCGTGTTTCAGGGCGTGGGGCATTGGGCTTTGT
CCACATGGGCTGGCCTGAAGCCCAGCCGGCTACTGCCACAGCGGGCTTCTCCCAGGCTGCTCTCGGTCGG
CCGTGCGGACCTCGCCAAGCATCAGGAACTCCCGGGGAAGAAGCTGCTCTCTGAGAAAAAGCTGAAAAGG
TACTTTGTGGACTATCGGAGAGTGCTTGTCTGTGGAGGAAACGGAGGCGCTGGGGCAAGCTGCTTCCACA
GTGAGCCCCGCAAGGAGTTTGGAGGCCCTGATGGAGGGGACGGAGGCAACGGTGGACACGTCATTCTGAG
AGTTGACCAGCAAGTCAAGTCCCTGTCGTCGGTCCTGTCGCGGTACCAGGGTTTCAGTGGAGAAGATGGA
GGGAGTAAAAACTGCTTCGGGCGCAGTGGCGCCGTCCTCTACATCCGGGTCCCCGTGGGCACGCTGGTGA
AGGAGGGAGGCAGAGTTGTGGCCGACCTGTCTTGCGTGGGAGATGAGTACATTGCCGCGCTGGGCGGGGC
AGGAGGGAAAGGCAACCGCTTCTTCCTGGCCAACAACAACCGTGCCCCTGTGACCTGTACCCCTGGACAG
CCAGGACAGCAGCGAGTTCTCCACCTGGAGCTCAAGACGGTGGCCCACGCCGGAATGGTGGGATTCCCCA
ACGCCGGGAAGTCCTCACTGCTCCGGGCCATTTCAAACGCCAGACCCGCCGTGGCTTCCTACCCGTTCAC
CACCCTGAAGCCCCACGTCGGGATCGTCCACTACGAAGGCCACCTACAAATAGCAGTGGCCGACATCCCC
GGCATCATACGAGGCGCCCACCAGAACAGGGGTCTGGGGTCCGCCTTCCTCAGGCACATCGAGCGCTGCC
GCTTTCTCTTGTTCGTGGTGGATCTTTCTCAGCCTGAGCCGTGGACTCAAGTTGACGATTTAAAATATGA
ACTGGAGATGTATGAAAAGGGCCTGTCTGCGAGGCCCCACGCAATCGTCGCAAACAAGATTGACCTCCCT
GAAGCCCAAGCCAATCTGTCCCAGCTCCGGGATCACTTGGGACAGGAGGTCATCGTGCTGTCGGCGTTGA
CCGGCGAGAACCTGGAGCAGCTGCTGTTGCACCTGAAGGTGCTGTATGACGCCTACGCGGAGGCCGAGCT
GGGCCAGGGCCGCCAGCCGCTCAGGTGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

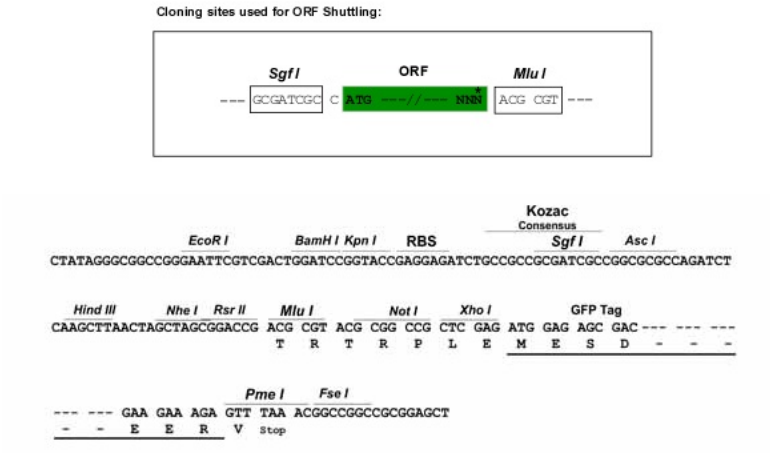
>RG205663 representing NM_015666
Red=Cloning site Green=Tags(s)

MAPARCFSARLRTVFQGVGHWALSTWAGLKPSRLLPQRASPRLLSVGRADLAKHQELPGKKLLSEKKLKR
YFVDYRRVLVCGGNGGAGASCFHSEPRKEFGGPDGGDGGNGGHVILRVDQQVKSLSSVLSRYQGFSGEDG
GSKNCFGRSGAVLYIRVPVGTLVKEGGRVVADLSCVGDEYIAALGGAGGKGNRFFLANNNRAPVTCTPGQ
PGQQRVLHLELKTVAHAGMVGFPNAGKSSLLRAISNARPAVASYPFTTLKPHVGIVHYEGHLQIAVADIP
GIIRGAHQNRGLGSAFLRHIERCRFLLFVVDLSQPEPWTQVDDLKYELEMYEKGLSARPHAIVANKIDLP
EAQANLSQLRDHLGQEVIVLSALTGENLEQLLLHLKVLYDAYAEAELGQGRQPLRW

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_015666

ORF Size: 1218 bp

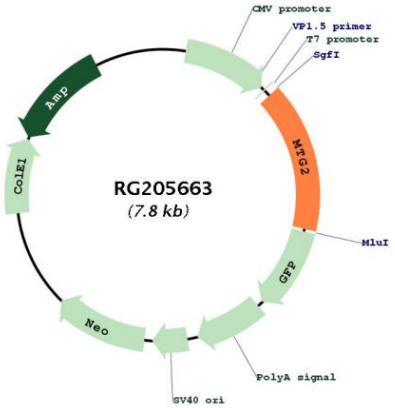
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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_015666.1
RefSeq Size:	3085 bp
RefSeq ORF:	1221 bp
Locus ID:	26164
UniProt ID:	Q9H4K7
Cytogenetics:	20q13.33
Domains:	GTP1_OBG
Gene Summary:	Small G proteins, such as GTPBP5, act as molecular switches that play crucial roles in the regulation of fundamental cellular processes such as protein synthesis, nuclear transport, membrane trafficking, and signal transduction (Hirano et al., 2006 [PubMed 17054726]). [supplied by OMIM, Mar 2008]

Product images:



Circular map for RG205663