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Product datasheet for SC311467

GTPBP10 (NM_001042717) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	GTPBP10
Synonyms:	ObgH2; UG0751c10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC311467 representing NM_001042717. Blue=Insert sequence Red=Cloning site Green=Tag(s) GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC ATGGTGCATTGCAGTTGCGTGTTGTTCAGAAAGTATGGAAATTTCATCGATAAGCTAAGACTCTTCACC AGGGGAGGATCCGGTGGAATGGGTTATCCTCGTTTAGGTGGAGAAGGTGGAAAAGGTGGTGATGTCTGG GTTGTAGCCCAGAACAGAATGACTTTAAAACAACTTAAAGACAGGTATCCTCGGAAACGGTTTGTGGCT GGAGTAGGAGCAAACAGCAAATTCCCAAATGCTGGAAAATCCTCTTTGCTAAGTTGTGTTTCTCATGCA AAACCTGCAATTGCAGATTACGCATTTACAACATTAAAGCCTGAACTTGGAAAGATAATGTACAGTGAT TTCAAACAGATATCAGTAGCTGATCTTCCGGGTTTAATAGAAGGAGCACATATGAACAAAGGAATGGGC CACAAATTCCTCAAGCATATAGAAAGAACTAGACAACTACTTTTTGTTGTTGATATTTCTGGATTTCAG CTTTCTTCTCACACTCAATACAGGACAGCTTTTGAAACCATAATACTGCTTACAAAAGAGTTGGAATTG TACAAAGAGGAACTTCAGACAAAACCTGCACTCTTGGCAGTTAATAAAATGGACTTGCCAGATGCCCAA GATAAGTTCCATGAATTGATGAGCCAGCTCCAGAATCCTAAAGATTTTCTGCATTTATTTGAAAAAAAC ATGATTCCAGAGAGGACTGTAGAGTTCCAACATATCATCCCCATATCTGCAGTTACTGGAGAAGGAATC GAAGAATTAAAGAATTGTATAAGAAAGTCACTGGATGAACAGGCCAACCAGGAAAATGATGCACTTCAT AAGAAACAGTTGCTTAATTTGTGGATTTCTGATACAATGTCTTCTACTGAGCCACCATCAAAGCATGCT GTTACTACTTCCAAAATGGATATAATTTAA ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
Restriction Sites:	SgfI-MluI
ACCN:	NM_001042717
Insert Size:	927 bp

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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_001042717.2
RefSeq Size:	7313 bp
RefSeq ORF:	927 bp
Locus ID:	85865
UniProt ID:	A4D1E9
Cytogenetics:	7q21.13
MW:	34.7 kDa
Gene Summary:	Small G proteins, such as GTPBP10, 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] Transcript Variant: This variant (1) lacks alternate in-frame exons in the 5' coding region, compared to variant 2. The resulting protein (isoform 1) is shorter when it is compared to isoform 2. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.