

Product datasheet for **RG203676**

FKBP10 (NM_021939) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | FKBP10 (NM_021939) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | FKBP10 |
| Synonyms: | BRKS1; FKBP65; hFKBP65; OI6; OI11; PPIASE |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>RG203676 representing NM_021939
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTCCCGCGGGCCCCCAGCCACAGCCTCCTCCGGTCCCCCTGCTGCAGTTGCTGCTACTGGTGG
 TGCAGGCCGTGGGAGGGGGCTGGGCCGCGCCAGCCCGGCCGGGGCCCCCTGGAAGATGTGGTCAATCGA
 GAGGTACCACATCCCCAGGGCCTGTCCCGGGAAGTGCAGATGGGGGATTTGTGCGCTACCACTACAAC
 GGCACTTTTGAAGATGGCAAGAAGTTGATTCAAGCTATGATCGCAACACCTTGGTGCCATCGTGGTGG
 GTGTGGGGCGCCTCATCACTGGCATGGACCGAGGCCTCATGGGCATGTGTGTCAACGAGCGGCGACGCCCT
 CATTGTGCTCCCCACCTGGGCTATGGGAGCATCGGCCTGGCGGGGCTCATTCCACCGGATGCCACCCTC
 TACTTCGATGTGGTTCTGCTGGATGTGTGAACAAGGAAGACACCGTGCAGGTGAGCACATTGCTGCGCC
 CGCCCCACTGCCCCGCATGGTCCAGGACGGCGACTTTGTCCGCTACCACTACAATGGCACCTGCTGGA
 CGGCACCTCCTTCGACACCAGCTACAGTAAGGGCGGCCTTATGACACCTACGTCGGCTCTGGTTGGCTG
 ATCAAGGCATGGACCAGGGGCTGCTGGGCATGTGTCCTGGAGAGAGAAGGAAGATTATCATCCCTCCAT
 TCCTGGCCTATGGCGAGAAGGCTATGGGACAGTGATCCCCCACAGGCCTCGTGGTCTTTCACGTCTCT
 CCTGATTGACGTGCACAACCCGAAGGACGCTGTCCAGTAGAGACGCTGGAGCTCCCCCCGGCTGTGTC
 CGCAGAGCCGGGGCCGGGACTTCATGCGCTACCACTACAATGGCTCCTTGATGGACGGCACCTCTTCG
 ATTCCAGTACTCCCGCAACCACCTACAATACCTATATCGGGCAGGGTTACATCATCCCCGGGATGGA
 CCAGGGGCTGCAGGTGCCTGCATGGGGAAACGCCGAGAATTACCATCCCCCGCACCTCGCCTATGGG
 GAGAATGGAAGTGGAGACAAGATCCCTGGCTCTGCCGTGCTAATCTTCAACGTCCATGTCATTGACTTCC
 ACAACCTGCGGATGTGGTGGAAATCAGGACACTGTCCCGGCCATCTGAGACCTGCAATGAGACCACCA
 GCTTGGGGACTTTGTTCCGATACCATACAACCTGTTCTTTGCTGGACGGCACCCAGCTGTTCACTCGCAT
 GACTACGGGGCCCCCAGGAGGCGACTCTCGGGCCAACAAGGTGATCGAAGGCCTGGACACGGGCTGTC
 AGGGCATGTGTGTGGGAGAGAGGCGGCAGCTCATCGTCCCCCGCACCTGGCCACGGGAGAGTGGAGC
 CCGGGGAGTCCCAGGCAGTGTGTGCTGCTGTTTGGAGTGGAGCTGGTGTCCCGGAGGATGGGCTGCC
 ACAGGCTACCTGTTTGTGTGGCACAAGGACCTCCTGCCAACCTGTTTGAAGACATGGACCTCAACAAGG
 ATGGCGAGGTCCCTCCGAGGAGTCTCCACCTCATCAAGGCTCAAGTGTGAGGGCAAAGGACGCCCT
 CATGCCTGGGACGACCTGAGAAAACCATAGGAGACATGTTCCAGAACCAGGACCGCAACCAGGACGGC
 AAGATCACAGTCGACGAGCTCAAGCTGAAGTCAGATGAGGACGAGGAGCGGGTCCACGAGGAGCTC

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG203676 representing NM_021939
 Red=Cloning site Green=Tags(s)

MFPAGPPSHLLRLPLLQLLLL VVQAVGRGLGRASPAGGPLEDVVIERYHIPRACPREVQMDFVRYHYN
 GTFEDGKKFDSSYDRNTLVAIVVGVGRLITGMDRGLMGMCVNERRRILVPPHLGYGSIGLAGLIPDATL
 YFDVLLDVWNKEDTVQVSTLLRPPHCPRMVQDGFVRYHYNGTLLDGTSTFDTSYKGGTYDHYVSGWL
 IKGMDQGLLGMCPGERRKIIIPPFLAYGEKGYGTVIPPQASLVFHVLLIDVHNPKDAVQLETLELPPGCV
 RRAGAGDFMRYHYNGSLMDGTLFDSSYSRNHTYNTYIGQGYIIPGMDQGLQGACMGERRRITIPPHLAYG
 ENGTGDKIPGSAVLI FNVHVIDFHNPADVVEIRTL SRPSETCNETTKLGDVRYHYNCSLLDGTQLFTSH
 DYGAPEATLGANKVIEGLDTGLQGMCVGERRQLIVPPHLAHGESGARGVPGSAVLLFEVELVSREDGLP
 TGYLFVWHKDPANL FEDMDLNKDGEVPPPEEFSTFIKAQVSEKGRMLMPGQDPEKTI GDMFQNDQDRNQDG
 KITVDELKLSDEDEERVHEEL

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_021939

ORF Size: 1746 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.

RefSeq: [NM_021939.4](#)

RefSeq Size: 2641 bp

RefSeq ORF: 1749 bp

Locus ID: 60681

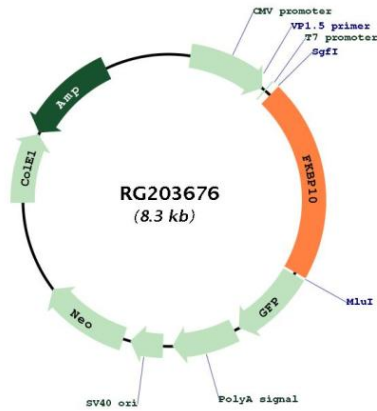
UniProt ID: [Q96AY3](#)

Cytogenetics: 17q21.2

Protein Families: Druggable Genome

Gene Summary: The protein encoded by this gene belongs to the FKBP-type peptidyl-prolyl cis/trans isomerase (PPIase) family. This protein localizes to the endoplasmic reticulum and acts as a molecular chaperone. Alternatively spliced variants encoding different isoforms have been reported, but their biological validity has not been determined.[provided by RefSeq, Nov 2009]

Product images:



Circular map for RG203676