

Product datasheet for **RG201470**

C18orf55 (TIMM21) (NM_014177) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C18orf55 (TIMM21) (NM_014177) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	C18orf55
Synonyms:	C18orf55; HSPC154; TIM21
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG201470 representing NM_014177 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATTTGTACTTTTCTACGAGCCGTACAGTATACGGAGAAGCTGCACAGGTCTCGGCAAAGCGATTGC
TTTTGCCATACATCGTGCTTAACAAAGCGTGCTGAAGACTGAGCCAGTTTGAGATGTGGGCTTCAATA
TCAAAAGAAAACGCTGCGACCTAGATGTATTCTGGAGTCACCCAGAAAACCATCTGGACGCAGGGACCG
AGCCCCGAAAAGCAAAGGAGGATGGCAGCAAACAAGTGTCTGTGCACAGGAGTCAGAGAGGGGAAACCG
CCGTCCCAACATCACAAAAGTAAAGAAGCCGGAAGAGATTTTACCTATTTAATAGTGGTCTTTTTGG
AATCAGCATTACAGGTGGCTTGTTTACACGATTTTCAAAGAAGCTTTTTCTTCATCCAGTCTAGCAAG
ATATATGGGAGAGCCTTAGAAAAATGCAGATCACATCCTGAGGTGATCGGTGCTTTGGTGAAGTCTGTTA
AAGGCTATGGGGAGGTGACAAGGCGGGGTGCGCCGAGCATGTCAGGTTCACTGAATATGTAAGATGG
GCTGAAACACACGTGTGTGAAATTTACATTGAGGGCTCTGAGCCAGGGAAGCAAGGAACGGTGTATGCC
CAAGTGAAAGAGAACCAGGAAGTGGTGAATATGATTTTCGATATATTTGTAGAAATTGAATCTTATC
CTAGAAGAACTATTATCATTGAAGATAATCGATCCCAAGATGAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG201470 representing NM_014177
 Red=Cloning site Green=Tags(s)

MICTFLRAVQYTEKLHRSSAKRLLLPIYIVLNKACLKTEPSLRCLQYQKTLRPRCILGVTQKTIWTQGP
 SPRKAKEDGSKQVSVHRSQRGGTAVPTSQKVKEAGRDFTYLIVLFGISITGGLFYTIKELFSSSSPSK
 IYGRALEKCRSHPEVIGVFGESVKGYGEVTRRGRRRQHVRFTYVYKDKLKHCTCVKFYIEGSEPGKQGTVYA
 QVKENPGSGEYDFRYIFVEIESYPRRTIIIEDNRSQDD

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014177

ORF Size: 744 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_014177.3](#)

RefSeq Size: 1343 bp

RefSeq ORF: 747 bp

Locus ID: 29090

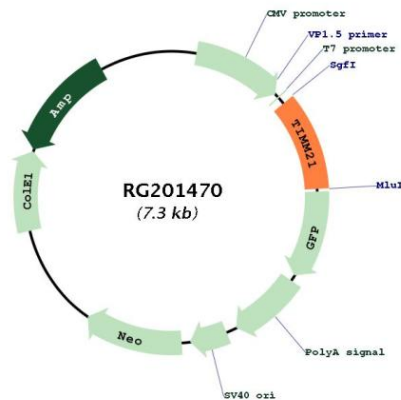
UniProt ID: [Q9BVV7](#)

Cytogenetics: 18q22.3

Protein Families: Transmembrane

Gene Summary: Participates in the translocation of transit peptide-containing proteins across the mitochondrial inner membrane. Also required for assembly of mitochondrial respiratory chain complex I and complex IV as component of the MITRAC (mitochondrial translation regulation assembly intermediate of cytochrome c oxidase complex) complex. Probably shuttles between the presequence translocase and respiratory-chain assembly intermediates in a process that promotes incorporation of early nuclear-encoded subunits into these complexes.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG201470