

## Product datasheet for RC201470

### 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:	Myc-DDK
Symbol:	C18orf55
Synonyms:	C18orf55; HSPC154; TIM21
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC201470 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATTTGTACTTTTCTACGAGCCGTACAGTATACGGAGAAGCTGCACAGGTCTCGGCAAAGCGATTGC  
TTTTGCCATACATCGTGCTTAACAAAGCGTGCTTGAAGACTGAGCCAGTTTGAGATGTGGGCTTCAATA  
TCAAAAGAAAACGCTGCGACCTAGATGTATTCTTGGAGTCACCCAGAAAACCATCTGGACGCAGGGACCG  
AGCCCCGAAAAGCAAAGGAGGATGGCAGCAAACAAGTGTCTGTGCACAGGAGTCAGAGAGGGGAAACCG  
CCGTCCCAACATCACAAAAGTAAAGAAGCCGGAAGAGATTTTACCTATTTAATAGTGGTCTTTTTGG  
AATCAGCATTACAGGTGGCTTGTTTTACACGATTTTCAAAGAAGTCTTTTCTTCCAGTCTAGCAAG  
ATATATGGGAGAGCCTTAGAAAAATGCAGATCACATCCTGAGGTGATCGGTGCTTTTGGTGAATCTGTTA  
AAGGCTATGGGGAGGTGACAAGGCGGGTTCGCCGCGAGCATGTCAGGTTCACTGAATATGTAAGATGG  
GCTGAAACACACGTGTGTGAAATTTACATTGAGGGCTCTGAGCCAGGGAAGCAAGGAACGGTGTATGCC  
CAAGTGAAAGAGAACCAGGAAGTGGTGAATATGATTTTCGATATATTTGTAGAAATTGAATCTTATC  
CTAGAAGAATAATTATCATTGAAGATAATCGATCCCAAGATGAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC201470 protein sequence  
 Red=Cloning site Green=Tags(s)

MICTFLRAVQYTEKLHRSSAKRLLLPIYIVLNKACLKTEPSLRCLQYQKTLRPRCILGVTQKTIWTQGP  
 SPRKAKEDGSKQVSVHRSQRGGTAVPTSQKVKEAGRDFTYLIVVLFGISITGGLFYTIKELFSSSSPSK  
 IYGRALEKCRSHPEVIGVFGESVKGYGEVTRRRRQHVRFTEYVKDGLKHTCVKFYIEGSEPGKQGTVYA  
 QVKENPGSGEYDFRYIFVEIESYPRRTIIIEDNRSQDD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6301\\_e04.zip](https://cdn.origene.com/chromatograms/mk6301_e04.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**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:** 1562 bp

**RefSeq ORF:** 747 bp

**Locus ID:** 29090

**UniProt ID:** [Q9BVV7](#)

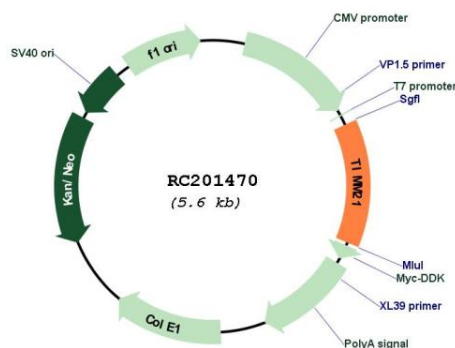
**Cytogenetics:** 18q22.3

**Protein Families:** Transmembrane

**MW:** 28.2 kDa

**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 RC201470