

Product datasheet for **RG211853**

C17orf97 (NM_001013672) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	C17orf97
Synonyms:	CK20; LIAT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG211853 ORF sequence, **codon optimized**.
Due to the complexity of NM_001013672, the ORF clone is codon optimized for mammalian Expression.
The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGAGACTAGAGGCCCGCCTCGCGGTACGCGCCGAGTCAAGACGCCTTGTCGGCATTGGGCCCGAG
CCCCCCCCCGCGCGTTGGCCTGCAGCCGAGCGCGCCTTGACAGACGCGCGGGCAGGTACCATGGG
GTATAAAGACAATGATGGAGAAGAAGAAGAGAGAGGGTGGAGCGCGCGACCCGGGTTCCCGATTG
CCCCCAATTACAGGTGGGGCTTCCGAATTGGCAAAAAGGAAGGTGAAAAAGAAGAGAAAAAAGA
CGAAGGGCTCTGGGAAGGGAGATGATAAGCACCAAGCCAGTCCCTGAAGAGCCAGCCGCTGTCCAGTTC
CTTTCACGATATTCTGTCTCCATGTAAGGAGCGGGGCCCTAAGCCCGAACACCGGCAAGCAAGTGGAG
AAGAAACACTTGCCGTCTGATAGTAGTACCGTGTCACTGCCGATTTGCTGAGATTGAAAACTCGCGA
ACCGGATCAACGAGTCACTGAGGTGGGACGGGATTTGGCCGATCTGAGGCAGAAAAGGAGCGAATTCG
GATCTACAAGCTGAACCGGCGCAACGCTACCGCTGCCTTGCCCTGAAGGGCTTCCACCCCGACCCAGAA
GCCTTGAAGGGTTTTACCCAGATCCAGAGCACTTAAGGCTTTACCCAGATCCCGAAGCCCTGAAGG
GATTCCATCTGACCCAGAAGCACTGAAGGGCTTTACCCGGATCTGAGGCACTGAAGGGGTTTACCC
CGACCCAGAGGCCCTTGAAGGTATTCACCTGATCCCGAGGCACTCAAGGAATTCATCTGATCCCGAA
GCCCTGAAAGGGTTCCATCCAGATCCCGAGGCCCTCAAGGGCTTCCACCTGACCTGAGGCCCTGAAAG
GCTTCCACACCGACCCGAGGCCCTGAAGGGTTTTACATCGATCCCGAGGCACTTAAGGGGTTTACCC
GGACCCCAAGCCCTGAAGGGCTTTACCTGATCCTAAGGCTCTTAAAGGCTTCCATACTGACCCGAA
GCTCTGAAAGGGTTTATCTGATCCCAAGGCACTGAAAGGCTTCCACCCAGATCCTGAAGCGCTGAAAG
GTTTCCATCCCGACCCCTGAGGCCCTCAAAGGCTTTCATCCCGACCCCGAAGCTCTGAAGGGATTCCATAC
CGATCCCAATGCCGAAGAGGCCCTGAGAACCTTCCCTACCTAGCGATAAGGATGGGTCCAGCTCCAC
CGACAGCTACAGCAAGCTGAGTGCCCAATCTGTGCTTTGAGGGAACCTGACCCCTAAGTTGTTGC
ATTCTGACCTCGCTCTACTCTTCGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

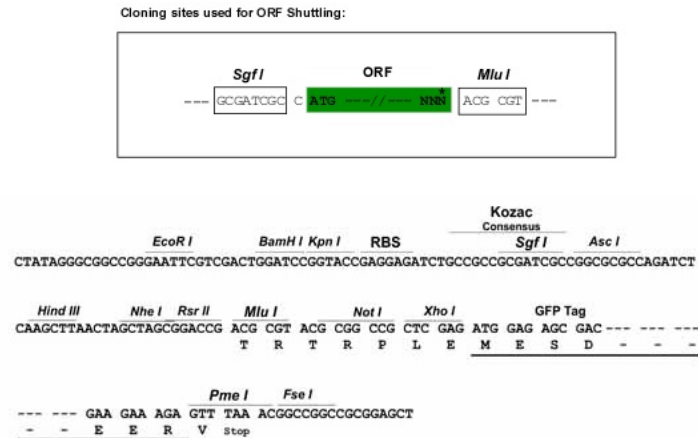
Protein Sequence: >RG211853 representing NM_001013672
Red=Cloning site Green=Tags(s)

METRGPGLAVRAESRRLVGIGPRAPPGRVGLQPSGRLDRRGGAGTMGYKDNDGEEEEEGGAAGPRGSRL
PPITGGASELAKRKVKKKRKKKTKSGSGDKHQSLSQPLSSSFHDILSPCKERGPKPEHRQSKVE
KKHLPSDSSVSLPDFAEIENLANRINESLRWDGILADPEAEKERIRIYKLNRRKRYRCLALKGFHPDPE
ALKGFHPDPEALKGFHPDPEALKGFHPDPEALKGFHPDPEALKGFHPDPEALKGIHPDPEALKGIHPDPE
ALKGFHPDPEALKGFHPDPEALKGFHTDPEALKGFHDPEALKGFHPDPKALKGFHPDPKALKGFHTDPE
ALKGFHPDPKALKGFHPDPEALKGFHPDPEALKGFHPDPEALKGFHTDPNAEEAPENLPYLSKDGSSSH
RQPTSKAECPNLCFEGNLTPKLLHSDLAPTLLE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001013672

ORF Size: 1359 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.

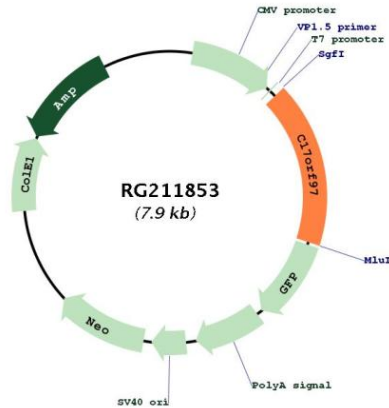
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001013672.2](#), [NP_001013694.2](#)

RefSeq Size: 1841 bp

RefSeq ORF:	1272 bp
Locus ID:	400566
UniProt ID:	<u>Q6ZQX7</u>
Cytogenetics:	17p13.3
Gene Summary:	May be involved in ATE1-mediated N-terminal arginylation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG211853