

Product datasheet for **RG216730**

TTPAL (NM_001039199) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	TTPAL
Synonyms:	C20orf121
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG216730 representing NM_001039199
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGTCCGAAGAAAGTGACTCTCTGAGAACCAGCCCTTCTGTGGCCTCACTCTGAAAATGAGCTGCCAC
CACCACCTGAGCCTCCGGGCTATGTGTGCTCACTGACAGAAGACCTGGTCACCAAGCCCGGAAGAGCT
GCAGGAAAAGCCGGAATGGAGACTTCGAGATGTGCAGGCCCTTCGTGACATGGTGCGGAAGGAGTACCCC
AACCTGAGCACATCCCTCGACGATGCCTTCCTGCTGCGCTTCCTCCGAGCCCGCAAGTTTGATTACGACC
GGGCCCTGCAGCTCCTCGTCAACTACCACAGCTGTAGAAGAAGCTGGCCCGAAGTCTTCAATAACTTGAA
GCCATCAGCCTTAAAGATGTCCTTGCTTCGGGTTCTCACCCTGCTGCCCCACACTGACCCAGGGGC
TGCCATGTCGTCTGCATCCGCCAGACAGATGGATACCAAGCAACTATCCAATTACTGAAAACATCCGAG
CCATATACTTGACCTTAGAAAACTCATTAGTCTGAAGAAACCCAGGTGAATGGAATTGTAATCTTGC
AGACTACAAAGGAGTGAGTTTATCAAAAGCATCTCACTTTGGCCCTTTATAGCCAAAAGGTGATTGGC
ATCCTCCAGGATGGTTTCCCCATTCGATAAAAGCAGTCCATGTGGTGAATGAACCTCGAATATTTAAAG
GCATTTTGGCATCATAAAACCATTTCTAAAGGAGAAAATAGCAACAGATTCTTCTCCATGGGTCTGA
CTTGAACCTCTCCACACAAACCTTCAAGAAGCATCCTCCCAAGGAGTATGGGGCAGCGCTGGGGAG
CTGGACACTGCCACCTGGAACGCGTACTGCTGGCTTCAGAAGACGATTTGTGAAAGAGTTCTGCCAAC
CTGTTCTGCTGTGACAGCATCCTGGCCAGACGCTGCTGCCCAGGGCCTGACCTCAGATGCACAGTG
TGACGACTCCTTGCAGCTGTGAAGTCACAGCTGTACTCTGCTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence: >RG216730 representing NM_001039199
 Red=Cloning site Green=Tags(s)

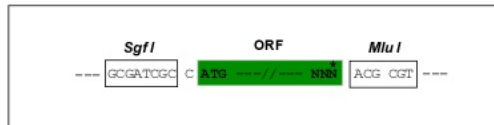
MSEESDSLRTSPSVASLSENELPPPPEPPGYVCSLTEDLVTKAREELQEKPEWRLRDVQALRDMVRKEYP
 NLSTSLDDAFLRLRARKFDYDRALQLLVNYHSCRRSWPEVFNNLKPSALKDVLASGFLTVPHTDPRG
 CHVVCIRPDRWIPSNYPITENIRAIYLTLEKLIQSEETQVNGIVILADYKGVSLSKASHFGPFIKKVIG
 ILQDGFPIRIKAVHVNEPRIFKGIFAIKPKFLKEKIANRFFLHGSDLNSLHTNLPRLPKEYGGTAGE
 LDTATWNAVLLASEDDFVKEFCQVPACDSILGQTLLPEGLTSDAQCDLRAVKSQLYSCY

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



CTATAGGGCGGCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGCGCGCAGATCT

EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI

CAAGCTTAAGCTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- --- ---

HindIII NheI RsrII MluI NotI XhoI GFP Tag

T R T R P L E M E S D - - -

--- GAA GAA AGA GTT TAA ACGGCCGCGCGGAGCT

- - E E R V Stop

ACCN: NM_001039199

ORF Size: 1026 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_001039199.3](#)

RefSeq Size: 6191 bp

RefSeq ORF: 1029 bp

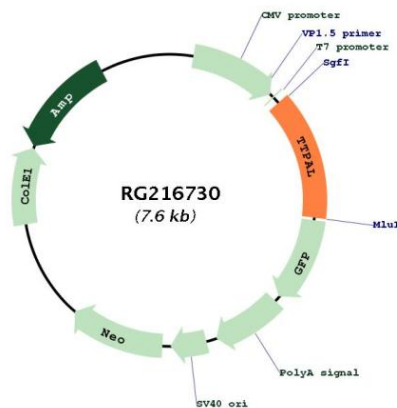
Locus ID: 79183

UniProt ID: [Q9BTX7](#)

Cytogenetics: 20q13.12

Gene Summary: May act as a protein that binds a hydrophobic ligand.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG216730