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Product datasheet for RG214379

TTLL7 (NM_024686) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	TTLL7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG214379 representing NM_024686
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCATCTCTGCCTCAAGAAGGAGTTATTCAGGGACCCTCTCCCCTGGATTTGAATACAGAATTACCTT
ATCAAAGCACAATGAAAAGGAAAGTCAGAAAGAAGAAAAAGAAGGGAACCATTACAGCAAATGTTGCCGG
GACAAAGTTTGAAATTGTTCGTTTAGTAATAGATGAAATGGGATTTATGAAAACTCCAGATGAGGATGAA
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ACAACTTGAAGTACAATTCACCTGGAATGACTCGCTCCAATGTTTTGTTTACATCCAGATATGGCCATCT
G

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG214379 representing NM_024686
Red=Cloning site Green=Tags(s)

MPSLPQEGVIQGPSPLDLNTELPYQSTMKRKVRKKKKKGTITANVAGTKFEIVRLVIDEMGFMKTPDEDE
TSNLIWCDSAVQQEKISELQNYQRINHFPGMGEICRKDFLARNMTKMIKSRPLDYTFVPRTWIFPAEYTQ
FQNYVKELKKKRKQKTFIVKPANGAMGHGISLIRNGDKLPSQDHLIVQEYIEKPFLMEGYKFDLRIYILV
TSCDPLKIFLYHDGLVRMGTEKYIPPNESNLTQLYMHLTNYSVNKHNEHFERDETENKGSKRSIKWFTEF
LQANQHDVAKFWSDISELVVKTLIVAEPHVLHAYRMCRPGQPPGSESVCFEVLGFDILLDRKLKPWLLEI
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HQLERRKEELKERLAQVRKQISREEHENRHMGNYRRIYPPEDKALLEKYENLLAVAFQTFLSGRAASFQR
ELNNPLKRMKEEDILDLLEQCEIDDEKLMGKTTKTRGPKPLCSMPESTEIMKRPKYCSSDSSYDSSSSSS
ESDENEKEEYQNKKREKQVTYNLKPSNHYKLIQQPSSIRRSVSCPRSISAQSPSSGDTRPFSAQQMISVS
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AESELLIEDIIDNWKYHKTKVASYWLIKLDSVKQRKVLDIVKTSIRTVLPRIWKVPDVEEVNLYRIFNRV
FNRLLWSRGQGLWNCFCDSGSSWESIFNKSPEVVTPLQLQCCQRLVELCKQCLLVVYKYATDKRGSLSGI
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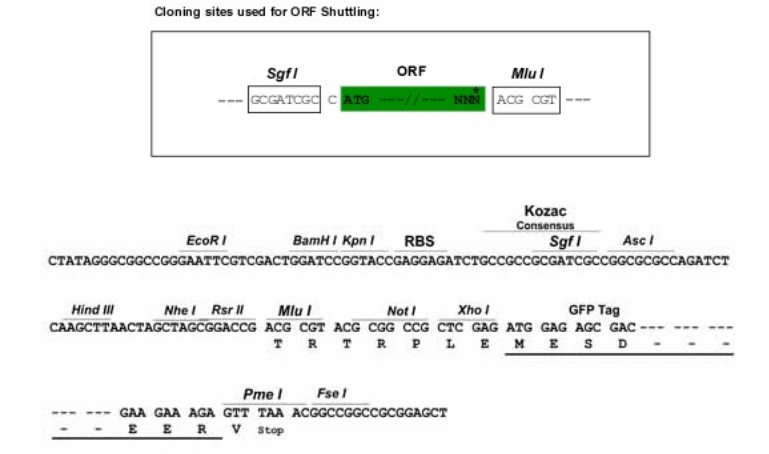
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_024686

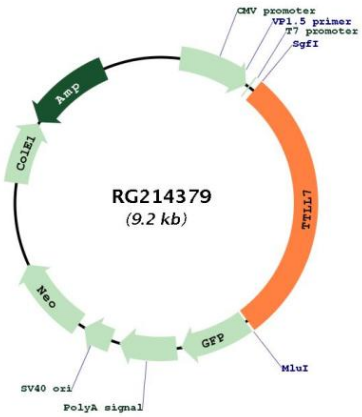
ORF Size: 2661 bp

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_024686.6
RefSeq Size:	3648 bp
RefSeq ORF:	2664 bp
Locus ID:	79739
UniProt ID:	Q6ZT98
Cytogenetics:	1p31.1
Gene Summary:	Polyglutamylase which preferentially modifies beta-tubulin (PubMed:25959773). Mediates both ATP-dependent initiation and elongation of polyglutamylation of microtubules (PubMed:25959773). Required for neurite growth; responsible for the strong increase in tubulin polyglutamylation during postnatal neuronal maturation (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG214379