

Product datasheet for **MG225693**

Ttll11 (NM_029774) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ttll11 (NM_029774) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ttll11
Synonyms:	4932702F08Rik; 4933424A20Rik; AU043211; D2Ertd624e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide
Sequence:

>MG225693 representing NM_029774
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCGCGCAGCAGCCCCGGAGAAGAAGCCGGAGGCTGAGTGGGAGCGGACGCGCGCGCGCGCGCGG
CGACAGCAGCGGCGACCGAGTCGCTACCGCGGAGACTGAGAAGCAGCAGGGCGTGGACGCTGGCGCGGC
CGGGGATCCAGAGCGCCTGGAGCTGGAGGAGCAGCCCAAGGACGTGGGCCGGATCCCGACCCGACGCGA
CGCCACGCGCCCCGAGGAAGGAGAGGCCCGCGTCGTCGGCGGCTGCCACCAGCGCTGCCCTGGCCAGC
CGAGGCCGCGCGCGCGGCCCTGAGCCAGCTCGTGAAGGCACGGGGCCGGAGCCGGAGCCGGGTCTACCG
GCGGAGCGCAGGCTCGATGCGGCCGGTCAACGTCGACAGCTCCAAGGCCCGCACCTCCCTGGACGCGCTC
AAGATCAGTCTTCGCCAGCTCAGGTGGAAGGAGTCCCATTGGCCGGCGCTTGCCTTGATATCTACT
GGCATGGAGTTTCATTTCTGACAGTGACATACTCCGGTCAAGTGAACAAATTCAGGCATGACGGA
GATGGTGGTAAGGTACCTTGAGCCGAGCACTGAGGATCATGCAGAACCTGTTCCAGAGGAGTACAAC
TTCTACCTCGCTCCTGGATCCTGCCAGAAGAGTTCAGCTCTTTGTGTCTCAGGTCCAAACGGTGAAG
AAGGTGACCCCTCCTGGAAGCCACTTTTATTGTGAAACCGGATAGTGGTTGTCAGGGTGTGGAATCTA
CCTCATTAAGGATCCCTGTGATGGTCGCCTGACTGGGACCCTCCATAACAGGCCGCGAGTGGTCCAGGAG
TACATCCGAAGCCCTCCTCATCGACAACTCAAGTTCGACATCCGCTGTATGTCTTGTGAGTCCCT
TGGATCCCTTAGAGATTTATATTGCCAAAGATGGACTCTCTAGGTTTTGTACAGAGCCATATCAAGAACC
TAACCCCAAGAACTGCACCATGTCTTATGCACCTGACCAACTACTCCCTGAATATCCACAGCGGCAAG
TTTGTCCACTCTGACAGCGCCAGCAGCGGCAAGAGGACTTTCTCTAGCATTCTTTGACTGTCTT
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GACCCAGAGCTCAAAGTTTTCTACCAGTCAGACATCCCAACAGGAGGCCGGGGCCACCTGCTTCCAG
ATTCTAGGCTTTGACATTCTTCTGATGAAAACTTGAAGCCTATGCTACTTGAAGTGAATGCAAACCCCA
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TCCTGGCCAGAGGAAGTTCAAGCTGCAACCTCTCCATGAGCAGGTGGCGTCTTGTGATTGACCTGTGTGA
ATACCACCTGTCCGTGCTGGATGAAAAACGCTTGTGTGCCATCGGGGCCGGCCCTCCAAAGAAATCCG
CCCCAGATGAACCGCCAGAGCATTAGCCACAGGCAGCTCTGCACCCGAGTAATCGGGGCTAGCAAGC
TCTCTCAATCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG225693 representing NM_029774
 Red=Cloning site Green=Tags(s)

MRRSSPEKKPEAEWEADAAAAAATAAATESLPAETEKQQGVDAGAAGDPERLELEEQPKDVGRIPTPTR
 RHAPEEGEARVVRRLPPALPLAQPRPAARALSQLVKARGRSRSRVYRRSAGSMRPVTVDSKARTSLDAL
 KISLRQLRWKEFPFGRRLPCDIYWHGVSRDSDILSGQVNKFGMTEMVRKVTLRALRIMQNLFPPEYN
 FYPRSWILPEEFQLFVSQVQTVKEGDPWSWKPTFIVKPDSGCQGDGIYLIKDPCDGRLTGTLHNRPAVVQE
 YIRKPLLIDKLFDIRLYVLLKSLDPLEIYIAKDGLSRFCTEPYQEPNPQNLHHVFMHLTNYSLNIHSGK
 FVHSDSASTGSKRTFSSILCRLSSKGVDIKKVWSDIISLVIKTVIALTPELKVFYQSDIPTGRPGPTCFQ
 ILGFDILLMKNLKPMLLEVNANPSMRIEHEYELSPGVFENIPSLVDEEVKAVAVIRDTRLMDPLKKKKEI
 HFPDIYMDRKHRIPPVSDRMSSWKHKGSSLIVRSQQMEKSFTSKEDLNCPTGGDSEPNPEAHLPSICL
 KQVFPKYAKQFNLYRLVDRMANLFI RFLGIKGTMKLGPTGFRTFIRNCKLSSSSLMAAVDILYIDITRR
 WNSVTVDQRDSGMCLQAFVEAFFLAQRKFKLQPLHEQVASLIDLCEYHLSVLDEKRLLCHRGRPLQRNP
 PQMNRPEHSATGSSAPRVIGASKLSQS

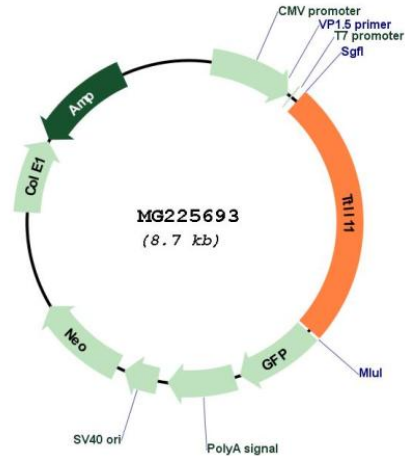
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:


ACCN: NM_029774

ORF Size: 2181 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_029774.3](#)

RefSeq Size: 3193 bp

RefSeq ORF: 2184 bp

Locus ID: 74410

UniProt ID: [A4Q9F4](#)

Cytogenetics: 2 23.9 cM

Gene Summary: Polyglutamase which preferentially modifies alpha-tubulin (PubMed:17499049). Involved in the side-chain elongation step of the polyglutamylation reaction rather than in the initiation step. Required for CCSAP localization to both spindle and cilia microtubules (PubMed:17499049). Generates long side-chains (PubMed:20530212).[UniProtKB/Swiss-Prot Function]