

## Product datasheet for **MG225694**

### **Ttll11 (NM\_028921) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Ttll11 (NM_028921) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ttll11
Synonyms:	4932702F08Rik; 4933424A20Rik; AU043211; D2Ertd624e; RP23-206J10.1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide  
Sequence:

>MG225694 representing NM\_028921  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCGCGCAGCAGCCCCGGAGAAGAAGCCGGAGGCTGAGTGGGAGCGGACGCGCGCGCGCGCGCGG  
 CGACAGCAGCGGCGACCGAGTCGCTACCGCGGAGACTGAGAAGCAGCAGGGCGTGGACGCTGGCGCGGC  
 CGGGATCCAGAGCGCCTGGAGCTGGAGGAGCAGCCCAAGGACGTGGGCCGGATCCCGACCCGACGCGA  
 CGCCACGCGCCCGAGGAAGGAGAGGCCCGCGTCGTCGGCGGCTGCCACCAGCGCTGCCCTGGCCAGC  
 CGAGGCCGCGCGCGGGCCCTGAGCCAGCTCGTGAAGGCACGGGGCCGGAGCCGGAGCCGGGTCTACCG  
 GCGGAGCGCAGGCTCGATGCGGCCGGTACCCTGGACAGCTCCAAGGCCCGCACCTCCCTGGACGCGCTC  
 AAGATCAGTCTTCGCCAGCTCAGGTGGAAGGATTCCATTTGGCCGGCGCTTGCCTTGATATCTACT  
 GGCATGGAGTTTCATTTCTGACAGTGACATACTCTCCGGTCAAGTGAACAAATTTCCAGGCATGACGGA  
 GATGGTGGTAAGGTACCTTGAGCCGAGCACTGAGGATCATGCAGAACCTGTTCCAGAGGAGTACAAC  
 TTCTACCTCGCTCCTGGATCCTGCCAGAAGAGTTCAGCTCTTTGTGTCTCAGGTCCAAACGGTGAAG  
 AAGGTGACCCCTCCTGGAAGCCACTTTTATTGTGAAACCGGATAGTGGTTGTCAGGGTGTGGAATCTA  
 CCTCATTAAGGATCCCTGTGATGGTCGCCTGACTGGGACCCTCCATAACAGGCCGCGAGTGGTCCAGGAG  
 TACATCCGAAGCCCTCCTCATCGACAACTCAAGTTCGACATCCGCTGTATGTCTTGCTGAAGTCTT  
 TGGATCCCTTAGAGATTTATATTGCCAAAGATGGACTCTCTAGGTTTTGTACAGAGCCATATCAAGAACC  
 TAACCCCAAGAACTGACACCATGCTTTATGCACCTGACCAACTACTCCCTGAATATCCACAGCGGCAAG  
 TTTGTCCACTCTGACAGCGCCAGCACGGGCAGCAAGAGGACTTTCTCTAGCATTCTTTGTAGACTGTCTT  
 CCAAAGGTGTGGACATCAAGAAGTCTGGTCTGATATCATCTCCTTAGTTATTAAGACTGTCATCGCCCT  
 GACCCCAAGACTCAAAGTTTTCTACCAGTCAGACATCCCAACAGGGAGGCCGGGGCCACCTGCTTCCAG  
 ATTCTAGGCTTTGACATTCTTCTGATGAAAACTTGAAGCCTATGCTACTTGAAGTGAATGCAAACCCCA  
 GCATGCGAATTGAGCATGAATACGAACTCTCTCCAGGAGTGGTTGAAAATATCCCCAGCCTGGTGGATGA  
 AGAGGTAAGGTGGCTGTGATCAGAGACAGCTGCGCCTCATGGACCCGCTGAAGAAGAAAAAGGAGATC  
 CAGTCTCAGCAGATGAAAAAGTCTTCACTTCAAAGGAAGATCTGAACTGTGACCCGACTGGTGGTACT  
 CCGAGCCCAACCCTGAAGCCATCTGCCCTCCATTTGCCCTCAAGCAGGTGTTCCCAAGTATGCCAAGCA  
 GTTCAACTACTTGCCTCGTGGACAGGATGGCCAATTTGTTTCATCCGATTTCTGGGAATCAAGGGGACG  
 ATGAAGTTGGGACCAACTGGCTTTCCGACCTTCATAAGGAAGTCAAAGTCAAGCAGCAGCAGCCTGTCCA  
 TGGCAGCTGTGGACATCCTCTACATAGACATCACAAAGGAGGTGGAACCTCGGTGACCGTGGACCAGCGGGA  
 CTCAGGGATGTGTCTGCAGGCATTTGTGCAAGCTTTCTTCTCCTGGCCAGAGGAAGTTCAAGTGC  
 CCTCTCCATGAGCAGGTGGCGTCTTATTGACCTGTGTGAATACCACCTGTCCGTGCTGGATGAAAAAC  
 GCTTGCTGTGCCATCGGGGCCGGCCCTCCAAAGAAATCCGCCCAAGTGAACCGCCAGAGCATTACAGC  
 CACAGGCAGCTCTGCACCCGAGTAATCGGGGCTAGCAAGCTCTCTCAATCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG225694 representing NM\_028921  
 Red=Cloning site Green=Tags(s)

MRRSSPEKKPEAEWEADAAAAAATAAATESLPAETEKQQGVDAGAAGDPERLEEEQPKDVGRIPTR  
 RHAPEEGEARVVRRLPPALPLAQPRPAARALSQLVKARGRSRVRYSAGSMRPVTVDSKARTSLDAL  
 KISLRQLRWKEFPFGRRLPCDIYWHGVSRDSDILSGQVNKFGMTEMVRKVTLSRALRIMQNLFPPEYN  
 FYPRSWILPEEFQLFVSQVQTVKEGDPKPTFIVKPDSGCQGDGIYLIKDPDGRLTGTLHNRPAVVQE  
 YIRKPLLIDKLFDIRLYVLLKSLDPLEIYIAKDGLSRFCTEPYQEPNPQNLHHVFMHLTNYSLNIHSGK  
 FVHSDASTGSKRTFSSILCRLSSKGVDIKKVWSDIISLVIKTVIALTPELKVFYQSDIPTGRPGPTCFQ  
 ILGFDILLMKNLKPMLLEVNANPSMRIEHEYELSPGVFENIPSLVDEEVKAVAVIRDTRLMDPLKKKKEI  
 QSQQMEKSFTSKEDLNCPTGGDSEPNPEAHLPSICLKQVFPKYAKQFNYLRLVDRMANLFIKGLIKGT  
 MKLGPTGFRFTFIRNCKLSSSSLMAAVDILYIDITRRWNSVTVDQRDSGMCLQAFVEAFFLAQRKFKLQ  
 PLHEQVASLIDLCEYHLSVLDEKRLLCRGRPLQRNPPQMNRPESATGSSAPRIVIGASKLSQS

TRTRPLE - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



**ACCN:** NM\_028921

**ORF Size:** 2082 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\\_028921.2](#), [NP\\_083197.2](#)

**RefSeq Size:** 3094 bp

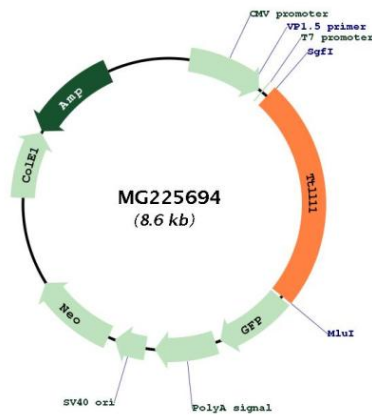
**RefSeq ORF:** 2085 bp

**Locus ID:** 74410

**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]

### Product images:



Circular map for MG225694