

Product datasheet for **MG211792**

Pom121 (NM_148932) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Pom121 (NM_148932) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Pom121
Synonyms: 2610027A18Rik; C80273; mKIAA0618
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG211792 representing NM_148932
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCTCCGGCGGCTGCGGCGGCTGACGGAGGCGAGCGGCGGGCCCCCGTTGGGCGGACGGGAAGGCC
 GGAGCCGGGCCCGCGGCTACGGAGGACCGGCGGGTGTGCGGCCCTCGGCTAGCGCTGCTCGGCCCTCGC
 GCTCTACCTGGTGCCCGGGCGGCGCGCTGGCTGGCTGGCCGTGGGGCGAGCGCGGCTGGTGGGGC
 CTGAGCCGAGAACCCCGGGCCCGAGGGCCCTGTCGTCTTCGTGCGGACGCGCGCCGTACCCCGCGG
 CAGCTCTACCGCTTACCGCTCCGGCCAAGTACCAGTCAACGGTAGCCTCTGCGAACCCCGCAGCCC
 GCTGGGAGGCCCGACCCGGCTGAGCTTACTCATGGGAGCTACCTGGGCAAGCCCGGCCCGCCGAG
 CCTGCCCTCCGGCAGGACCAAGGGAGAGGCGGGGCGCCGCCACCCGACGCTCCCGCCTCCGGCT
 CGGCGGTCCAGCGAGTCCACCAGTCTACCCCGGCTCCCGACCCGCTTTTGCGACCCTCCCGGAGGCC
 GCCCCACCGAGATTGTGGCCTTTGTCCAGTCGGTTTGTATAACACCCGAAGACGATATCCCATTCAG
 CAAGCCAGTATTCCTTGCTTGGGGCACTTCAACCGTCTGCTGGAATGGTGGCCATAAGAAGGCTGTG
 TGTCTCCAGGAACTCCAGGATGGTGTGAGCCAGTACAGTGGAGGATTGCCCTCCAGACAGCAAGCT
 ATCCGCTCATCAATGTCAGAGCAGATACTCGATAACAACACTGTCTTACCATCAAGTATGCCCCAGAT
 CTTGTGCAAAGGAGACTGTCTGAACGCCCTCAAGGAGAAGAAGAAAGAACAGTGGCGGAGGAAGACC
 AGCTGCACCTTGATGGCCAGGAAAACAAGAGAAGGCGCCATGATAGCGGTGGGAGCGGACATTACGATT
 CGAGCCCTTGTGGCAAACGGAGTCCCTGCTGCATTTGTGCCTAAGCCTGGCTCCCTGAAGAGAAGTCTG
 GCTTCCAGAGCTCAGATGACCACTTGAACAAACGGTCTCGCACCTCCTCTGTGAGCTCCCTGGCTAGTG
 CGTGCACAGGAGGCATCCCCAGTTCTAGCCGCAATGCCATCACCAGCTCCTACAGCTCCACCCGTGGCAT
 CTCACAGCTGTGGAAGAGGAGTGGTCCCACATCTTCTCCCTTCTCCAGTCCAGCTTCTCCCGCTCCAG
 ACACCAGAGAGGCCAGCAAGAAGACAAGAGAGGAGGAGCCATGTCAGCAGTCCAGTTCTTACCTCCCT
 TGGTGACAGACAAGGAGTCCCAGGAGAAAAGGTTACAGATAACAACACTGGGAAGCAGCAGAGCTCATG
 GACTTCCCACCCACACCTGGCAGCTCCGGCAACGCAACGCAAGATCCAGCTGCTGCCCTCCCGGCGA



[View online >](#)

GGGGACCAGCTCACCTTGCCCTCCACCCCAAGAGCTTGGCTATTCCATCACTGCTGAAGACCTGGACATGG
AGAGGAAAGCCTCACTGCAATGGTTTAAACAAGTCTTGGAGGACAAGCCAGATGATGCTTCCGCCTCAGC
CACTGATGGCCCCCTTCCACCAGCCCTCCCTTACATTACCCTGCCCGCTGTGGGGCCTGCTGCCTCG
CCAGCCTCCCTCCCGGCTCCAGCTCTAACCCACTGTTGGAGAGCTTGAAGAAGATGCAGGAGTCTCCAG
CCCCATCATCCTCGGAACCTGCTGAGGCAGCAACAGTTGCAGCCCTTCCCTCCGAAGACACCCAGCCT
CTTGGCCCCTCTGTCTCACCAGTGGCAGGGCCCTAGCCAGCACCTCCTCAGACTCCAAACCTGCAGCC
ACCTTCTGGGGCTGGCTTCTGCTTATAACCCCACTCACTGACAGCAAGTCTCTGGAGTCTCTC
AGGCTGAGCAGTCTGTCAGCACCCAGCCTCCACAGCCTCCTCCCGACCCCAAAGCCAGCATGCTGTT
TGGGATGCTGAGTCCACCTGCCAGCTCTTCTCCCTTGGCACTCCAGCTCCGGCTTGTGCTTCTCCCATG
TTTAAGCCATTTTTCCAGCCACACCTAAAAGTGAGAGTGATAGCCCTTACCAAGTAGCTCCTCAGCCG
CCACTACAGTTCATCCAGCACCCCTCCACAGCAGCCAGCACACCCAGCTTCAAGCCATTTT
TGACAAGATGGAGCCATTACAGCCATGCCCTGTCAACTCCCTTCTCCCTGAAGCAGACAACTGCTACA
GCCACCACTACAGCCACATCAGTCTCTCTTTACTGGCCTGGGCACTGCCACTTCCACGGTGGCCTCTG
GCACCGCAGCTTCTGCCTCAAAGCCTGTCTTTGGCTTTGGAGTGACCACTGCAGCGAGTACTGCCAGCAG
TACCATGACTTCCACTTCCAGTCACTTCTGTTGGGGGAGCCCCCTGTTACTACTTCTAGCTCTGCC
CCAGCTCTGGCCTCCATCTTCCAGTTTGGCAAGCCTTGGCCCCAGCAGCATCTGCAGCAGGCACCTCCT
TTAGCCAGCCCCCTTGGCAGCTTACCCAGACTGCTGCCAGCAATAGTGGCTTCACTGGTTTTGGCAGCAC
CCTCACCACTCCACCTCGGCCCTGCCACCAGCTCAGCCACGCTGACCTTCCAGCAACTGTCAAC
CCCACCTTCAACATTTCCCTTTAGCTCCAGTGCCAGCCTGCGCTCCCAACCTACCTGGAGCCAACCTCAC
AGCCACATTTGGAGCCACCGATGGGGCCACCAAGCCAGCACTTGGCCCAAGTTTTGGCAGCTCGTTTAC
TTTCGGCAACTCTGTGGCCTCAGCCCCATCGGCAGCCCCAGCACCCAGCCACCTTTGGCAGTGTGCACAG
CCAGCTTTGGAGGGTTGAAAGCCGAGCCTCCACCTTCGGCGCCCTGCCAGCACTCAGCCAGCTTTTG
GTAGACCACGTCTGTGTTCTCCTTTGGTCCAGTACCACATCTGGCTTTGGTGTCTGCTGCCACCGCTGC
TACCACCACAGACCACCAACAGTGGGAGCAGCAGTCTCTGTTTGGCAGCTCTGCTCCATCCCCATTC
ACATTCGGTGGCTCAGCAGCTCCTGCTGGCAGTGGAGGCTTTGGCCTTAGTGCTACCCAGGCACCACT
CCACCTCTGGAATTTAGCTTTGGATCTGGACAGAGTGGGACCCGGGCACCACCACCTCCTTTGGAAG
TCTGAGTCAGAACCCCTGGGCGCACCCAGCCAGGGCTCACCTTTGCCTTCACTGTGGGAGTACACCT
GAAAGCAAGCCTGTGTTTGGAGGCACATCTACACCTACTTTGGGAGAGTGCCCTGCCCGGCGTAG
GCACCACAGGGAGCAGCCTCTATTTGGGCTCTTCAACACCTGCCAAGGCTTTGTTGGAGTTGGACC
TTTTGGATCAGCAGCTCCTTCTGTTTTCCATTGGTGGGGATCCAAGACCCAGGGCTCGACAGCGACTT
CAGGCCGAAGGCAGCACACCCGAAGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG211792 representing NM_148932
 Red=Cloning site Green=Tags(s)

MSPAAAAADGGERRRPPGGREGRSRARGYGPPAGAAALGLALLGLALYLVPAAAAALAWLAVGASAAWWG
 LSREPRGPRALSSFVRDARRHPRPALASPPPAKSPVNGSLCEPRSPGGPDAELLLMGSYLGKPGPPE
 PALRQDPRERPGRRPPARSPPPASAVQRVHHVYPALPTLLRPSRRPPHRDCGPLSSRFVITPRRRYPIQ
 QAQYSLLGALPTVCWNGGHKKAVLSPRNSRMVCSPTVRIAPPDSKLFRSSMSEQILDITLSSPSSNAPD
 PCAKETVLNALKEKKKRTVAEEDQLHLDGQENKRRRHDSGGSGHSAFEPLVANGVPAAFVPGSLKRS
 ASQSSDHLNKRSTSSVSSLASACTGGIPSSSRNAITSSYSSTRGISQLWKRSGPTSSPFSSPASSRSQ
 TPERPAKKTREEEPCQQSSSSPPLVTDKESPEKVDTTTGKQQSSWTSPTPGSSGQRKRKIQLLPSRR
 GDQLTLPPPELGYISITAEDLDMERKASLQWFKVLEDKPDDASASATDGPSTSPPTFTLPAVGPAAS
 PASLPAPSSNPLESLKMQESPAPSSSEPAEATVAAPSPKTPSLAPLVSLAGPLASTSSDSKPAATFL
 GLASASSITPLTDSKSSGVSQAEQSVSTPASTASSPTPKPSMLFGMLSPASSSSLATPAPACASPM
 FKPIFPATPKSESDSPLPSSSSAATTASSSTAPPTAASTTPTFKPIFDKMEPFTAMPLSTPFLKQTTAT
 ATTTATSAPLFTGLGTATSTVASGTAASAKPVFGFGVTTAASTASMTSTSQSVLFGGAPPVTTSSSA
 PALASIFQFGKPLAPAASAAGTSFSQPLASSTQTAAASNGSFGSGSTLTTSTAPATTSQPTLTFNTVT
 PTFNIPFSSAKPALPTYPGANSQPTFGATDGTAKPALAPSFSSFTFGNSVASAPSAAPATFGSAAQ
 PAFGGLKAAASTFGAPASTQPAFGSTTSVFSFGSATTSGFGAAATAATTTQTTNSGSSSLFGSSAPSPF
 TFGGSAAPAGSGGFLSATPGTSSTSGTFSFGSGQSGTPGTTTSGSLSQNTLGAPSQGSPFAFSVGSTP
 ESKPVFGGTSTPTFGQSAPAGVGTGSSLSFGASSTPAQGFVGVGPFSAAPSFISIGAGSKTPGARQL
 QARRQHTRKK

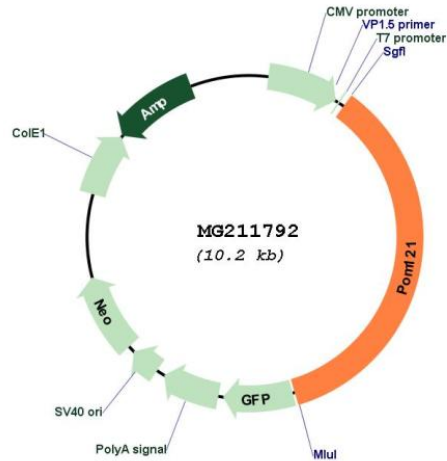
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_148932

ORF Size: 3600 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_148932.2](#), [NP_683734.2](#)

RefSeq Size: 5602 bp

RefSeq ORF: 3603 bp

Locus ID: 107939

UniProt ID: [Q8K3Z9](#)

Cytogenetics: 5 G2

Gene Summary:

Essential component of the nuclear pore complex (NPC). The repeat-containing domain may be involved in anchoring components of the pore complex to the pore membrane. When overexpressed in cells induces the formation of cytoplasmic annulate lamellae (AL) (By similarity).[UniProtKB/Swiss-Prot Function]