

Product datasheet for **MG211143**

Psm2 (NM_134101) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Psm2 (NM_134101) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Psm2
Synonyms:	9430095H01Rik; AA407121; TEG-190; Tex190
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG211143 representing NM_134101
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGGAGGAGGTTGGACGAGACAAGACACCCGTGCAGTCCCAACAGCCCTCCGCGACAACCCCGAGCGCG
 CGGACGAGAAGTCGAGTGGCAAGGAGCGAAGGGATGCCGGGAAAAAGACAAAGAGCAGGAGCTGTCTGA
 GGAGGACAAACAGCTTCAAGATGAACTGGAGATGCTCGTGGAGCGACTCGGGGAGAAAGATACATCTCTA
 TATCGACCAGCTCTGGAGGAAGTGAAGACAATTCGTTCTTCTACAACCTCCATGACTTCAGTACCCA
 AGCCTCTCAAATTTCTCGTCCACACTATGGCAAATGAAGGAAATCTATGAGAACATGGCCCTGGGGA
 GAATAAGTGTTCGAGCTGACATCATCTCTGTTTTGGCCATGACCATGAGTGGTGGAGCGGGAGTGCCTC
 AAGTATCGGCTCGTGGGCTCCAGGAAGAACTGGCGTCATGGGGCCATGAATACGTCAGACATCTGGCAG
 GAGAGGTGGCTAAGGAGTGGCAGGAGCTGGATGATGCGGAGAAAGCACAGCGGGAACCACTGCTTACCTT
 GGTAAAGGAAATCGTCCCCTACAACATGGCTCACAAATGCAGAGCAGGAGCTTGTGACCTGCTGATGGAA
 ATTGAGCAGGTGGACATGCTAGAGAAGGACATTGATGAGAACGCTTACGCCAAGGTCTGCCTCTATCTCA
 CCAATTGTGTGAATTATGTACCAGAACCTGAGAACTCTGCCCTCCTGCGCTGCGCCTTGGGCGTGTCCG
 AAAGTTTAGCCGTTTCCCTGAAGCTCTGAGATTGGCACTGATGCTCAATGACATGGAACCTGGTAGAAGAC
 ATTTTCACTTCTGCAAAGATGTGGTGGTCCAGAAGCAGATGGCATTGATGCTGGGTCCGCATGGAGTGT
 TCCTGGAGCTGAGTGAAGATGTAGAGGAATATGAAGACCTCACAGAAATCATGTCCAATGTCCAGCTCAA
 CAGCAACTTCTGGCTTAGCGCGGGAGCTGGACATCATGGAGCCCAAGGTGCCTGATGACATCTACAAA
 ACCCACCTAGAGAATAACAGGTTTGGTGGCAGTGGCTCAAGTGGATTCTGCACGAATGAACCTAGCCT
 CCTCTTTGTAATGGCTTTGTGAATGCAGCTTTGGTCAAGATAAACTACTGACTGATGATGGCAACAA
 ATGGCTTTACAAGAACAAGGACCATGGGATGCTAAGTGCTGCTGCGTCTCTTGGCATGATTCTGCTGTGG
 GATGTGGATGGTGGCCTCACCCAGATTGACAAGTATCTGTACTCCTCTGAGGACTACATCAAGTCAGGAG
 CTCTCCTTGCCTGTGGTATCGTGAATCTGGAGTCCGGAATGAGTGTGATCCTGCCCTGGCACTGCTTTC
 AGACTATGTTCTCCATAACAGCAATACCATGAGACTTGGCTCCATCTTTGGGCTAGGTTTGGCCTATGCT
 GGCTCTAATCGGGAAGATGTTCTAACACTGCTGCTACCTGTAATGGGAGATTCCAAGTCCAGCATGGAGG
 TGGCAGGTGTGACGGCTAGCTTGTGGGATGATAGCAGTGGGGTCTGCAATGGAGATGCACTTCCAC
 CATCCTCAGACCATCATGGAGAAATCTGAGACTGAGCTCAAGGATACCTATGCTCGTTGGCTTCTCTT
 GGCTGGGCTCAATCACTTGGGAAAGGCGAAGCTATTGAGGCCATCCTGGCTGCCTTGGAGGTGGTGT
 CAGAGCCATTCGCAGTTTTGCCAATACCTGGTGGATGTATGTGCTATGCAGGCTCTGGGAATGTGCT
 GAAGGTTCAAGCAGCTCCTCCACATCTGTAGTGAGCACTTTGACTCTAAGGAAAAGGAGGAAGACAAGAC
 AAGAAGGAAAAGAAGGACAAGGACAAGAAGGAAGCCCTGCTGACATGGGAGCACATCAGGGAGTAGCTG
 TTCTGGGCATTGCACTTATTGCTATGGGGGAAGAGATTGGTGCAGAGATGGCATTGCGAACCTTTGGTCA
 CTTGCTGAGATATGGGGAGCCTACCCTCCGTCGCGCTGTACCTTAGCACTGGCACTAATTTCTGTTTCA
 AATCCACGACTCAACATCCTGGATACGCTAAGCAAATCTCTCATGATGCTGATCCAGAAGTTTCTATA
 ACTCCATCTTTGCTATGGCATGGTGGCAGTGGTACCAATAATGCCGCTGGCTGCAATGTTGGCCCA
 GTTAGCTCAATATCATGCCAAGGACCCCAATAACCTCTCATGGTGGCCTTGGCACAGGCTTACACAT
 TTAGGGAAGGGCACACTTACCCTGCCCCATCACAGTATCGGCAGCTCATGATCAAGTAGCGGTGG
 CAGGGCTACTCACGGTGTGTTTCTTTCTGGATGTTGAAACATCATCCTAGGCAAGTCTCACTATGT
 CCTGTATGGGCTGGTAGCCGCATGCAGCCTCGGATGCTGGTTACATTTGATGAGGAGCTGCGACCATTG
 CCAGTTTCTGTCCGTGTGGGTGAGGAGTGGATGTTGGTGGCCAGGCTGGGAAGCAAAAACAATCACAG
 GGTTCAGACTCATAACGCCAGTGTGCTGGCCATGGGGAGCGGGCAGAGTTGGCCACTGAGGAGTT
 TCTTCTGTACCCCCATTCTGGAAGGCTTTGTTATTCTCGGAAGAACCCCACTATGATCTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG211143 representing NM_134101
 Red=Cloning site Green=Tags(s)

MEEGGRDKTPVQSQQPSATTPSGADEKSSGKERRDAGEKDKEQELSEEDKQLQDELEMLVERLGEKDTSL
 YRPAALEELRRQIRSSTTSMTSVPKPLKFLRPHYGKLEIYENMAPGENKCF AADIISVLAMTMSGERECL
 KYRLVGSQEELASWGHEYVRHLAGEVAKWEQELDDAEKAQREPLLT VKEIVPYNMAHNAEHEACDLLME
 IEQVDMLEKIDENAYAKVCLYLTSVCVNYVPEPENSALLRCALGVFRKFSRFPEALRLALMLNDMELVED
 IFTSCKDVVVQKQMAFMLGRHGVFLELSEDVVEEYEDLTEIMSNVQLNSNFLALARELDIMEPKVPDDIYK
 THLENNRFGGSGSQVDSARMNLASSFVNGFVNAAFQDKLLTDDGNKWL YKNKDHGMLSAAAASLGMI LLW
 DVDGGLTQIDKYL YSSEDIKSGALLACGIVNSGVRNECDPALALLSDYVLHNSNTMRLGSI FGLGLAYA
 GSNREDVLTLLL PVMGDSKSSMEVAGVTALACGMIAVGSCNGDVTSTILQTIMEKSETELKDTYARWPLPL
 GLGLNHLGKGEAIEAILAALEVSEPF RSFANTLVDVCA YAGSGNVLKVQQLLHCSEHFDSKEEEDKD
 KKEKKDKKKEAPADMGAHQGVAVL GIALIAMGEEIGAEMALRTFGHLLRYGEPTLRRAVPLALALISVS
 NPRLNILD T LSKFSHDADPEVSYNSIFAMGMVSGTNNARLAAML RQLAQYHAKDPNNLFMVRLAQLG LTH
 LGKGTLLCPYHSDRQLMSQVAVAGLLTVLVSFLDVRNIILGKSHYVLYGLVAAMQPRMLVTFDEELRPL
 PVSVRVQAVD VVQAGPKTITGFQTHTPVLLAHGERAE LATEEFLPVTPILEGFVILRKNPNYDL

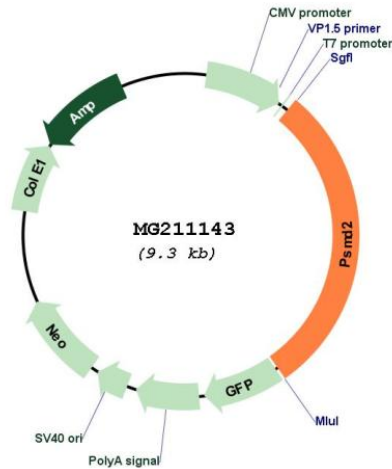
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_134101

ORF Size: 2724 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_134101.1](#), [NP_598862.1](#)

RefSeq Size: 3000 bp

RefSeq ORF: 2727 bp

Locus ID: 21762

UniProt ID: [Q8VDM4](#)

Cytogenetics: 16 B1

Gene Summary:

Component of the 26S proteasome, a multiprotein complex involved in the ATP-dependent degradation of ubiquitinated proteins. This complex plays a key role in the maintenance of protein homeostasis by removing misfolded or damaged proteins, which could impair cellular functions, and by removing proteins whose functions are no longer required. Therefore, the proteasome participates in numerous cellular processes, including cell cycle progression, apoptosis, or DNA damage repair.[UniProtKB/Swiss-Prot Function]