

Product datasheet for **MG208111**

Psm5 (NM_080554) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Psm5 (NM_080554) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Psm5
Synonyms:	1500032A03Rik; AW475925; mKIAA0072; S5b; W91691
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208111 representing NM_080554
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGCGCAGGCTGTGTCGCTCTCGGGAGGTGGCGGGCTGGAGGCGCCGCTGGAGGAGCTTCGTG
 CGCTGCAGTCAGTGGTGCAGGCTGTGCCGCTGCACGAGCTTCGCGAGCAGGCGGGGAGCTACGCCCTCCG
 CCCGCTGTTCTCCTTGCTTAACCAAGAACATCGGGAACAGACTGCTTTGTGTCTCCATTCTGGAGAGG
 CTGCTCCAAGCTGTGGAGCCGATTCACTTGGCCAGGAACCTCAGGCTTGACCTGCAGAGGGGACTGACTC
 ACCCTGATGACTCTGTA AAAACCCTCACTCTGTCGAGATTGGAAGAATTGTTGAAAATTCAGAAGCTGT
 TACTGAGATTCTCAATAATGCTGAGCTGTTGAAACAGATTGTTTATTGCATTGGCGGAGAGAATTTATCT
 GTTGCTAAAGCGGCTATTAATCCCTGTCGAGAATCACTAACCAGGCTGGCCTGGAAGCTCTGTTTG
 AAAGTAACCTGCTGGATGATTTGAAGAATGTAATGAAAACAAACGACGTTGTTGATACAGGGTCTATGA
 GCTAATTATAGATATTTCTTCTGTGTCATCAGAATCTTTAACTACTGTACCACAAGTGGACTGGTGACT
 CAACTCCTAAAAGAGCTGACGGGTGAGGACGTGTTAGTCAGAGCCACCTGTATAGAAATGGTGACATCAC
 TAGCTTATACCCATCACGGACGACAATACCTTGCTCAAGAAGGAGTCATTGACCAGATATCCAATATAAT
 TGTTGGCGCAGATTACAGCCCTTCTCTGGCTTCTATCTGCCAGGATTTGTGAAGTTTTTGGAAACCTG
 GCCGTCATGGATAGTCCCTCAGCAGATCTGTGAGCGCTACCCTGTTTTCTGGAGAAGGTGTTTGAATGG
 CGGATAGTCAAGACCCACCATGATTGGTGTGCTGTCGACACAGTTGGAATCCTGGGATCCAGTGTGGA
 AGGAAAACAAGTTTTACAGAAGACAGGAACCCGCTTTGAACGTGTCCTCATGAGAGTAGGATATCAAGCA
 AAGAATGCTTCCACGGAGCTGAAGATTAGTGCTTGGATGCAGTTTCTCTCTCTGTATTTATCGCCTG
 AGCAGCAGACTGATGACTTCTGGGAATGACAGAATCCTGGTTTTCTCCATGCTCGAGACTCCCTGGA
 GCCTTTCCGTGGTATCAGTAACCAAGCCCTTCCCGGAGCTACACTGTGCTGCCTTGAAGTTTTACAGCT
 ATTGCAGACCAGCCCTGGGCTCAGAGACTTATGTTTAAACAGTCCAGGTTTTGTAGAGTTTGTGATGGACC
 GGTCTGTGGAACATGACAAAGCTTCAAAGGATGCCAAATATGAACTGGTAAAAGCACTTGCCAATCCAA
 GACAGTTGCAGAGATCTTTGGAACTCAAATTATTTGAGGCTCAGAGCGTACCTAAGTGAAGTCCATAC
 TATGTGAAACCTGTTGCCACAACAGCAGTAGAAGGGCTGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208111 representing NM_080554
 Red=Cloning site Green=Tags(s)

MAAQAVSLLREVARLEAPLEELRALQSVVQAVPLHELREQAELRLRPLFSLLNQNNREQTALCVSILER
 LLQAVEPIHLARNLRDLQRGLTHPDDSVKTLTLSQIGRIVENSEAVTEILNNAELLKQIVYICIGGENLS
 VAKAAIKSLSRISLTQAGLEALFESNLDDLKNVMKTNVVRVRYVELIIDISSVSESLNYCTTSGLVT
 QLLKELTGEDVLRATCIEMVTSLAYTHHGRQYLAQEGVIDQISNIIVGADSDPFGFYLPGFVKFFGNL
 AVMDSPQQICERYPVFLEKVFEMADSDPTMIGVAVDTVILGSSVEGKQVLQKTGRFRERVLMRVGYQA
 KNASTELKIRCLDAVSSLLYLSPEQQTDDFLGMTESWFSMSRDSLEPFRGISNQPFPELHCAALKVFTA
 IADQPWAQRLMFNSPGFVEFVMDRSVEHDKASKDAKYELVKALANSKTVAEIFGNSNYLRLRAYLSEGPY
 VYKPVATTAVEGAD

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_080554

ORF Size: 1512 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_080554.1](#)

RefSeq Size: 2065 bp

RefSeq ORF: 1515 bp

Locus ID: 66998

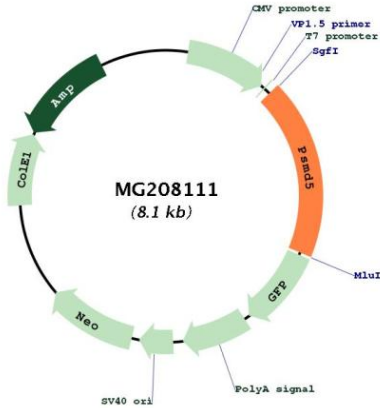
UniProt ID: [Q8BJY1](#)

Cytogenetics: 2 B

Gene Summary:

Acts as a chaperone during the assembly of the 26S proteasome, specifically of the base subcomplex of the PA700/19S regulatory complex (RC). In the initial step of the base subcomplex assembly is part of an intermediate PSMD5:PSMC2:PSMC1:PSMD2 module which probably assembles with a PSMD10:PSMC4:PSMC5:PAAF1 module followed by dissociation of PSMD5 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG208111