

Product datasheet for **RG226555**

26S proteasome non ATPase regulatory subunit 12 (PSMD12) (NM_174871) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	26S proteasome non ATPase regulatory subunit 12 (PSMD12) (NM_174871) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	26S proteasome non ATPase regulatory subunit 12
Synonyms:	p55; Rpn5; STISS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG226555 representing NM_174871
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCGGACGGCGCTCGGAGCGGGCTGACGGGCGCATCGTCAAGATGGAGGTGGACTACAGCGCCACGG
 TGGATCAGCGCCTACCCGAGTGTGCGAAGCTAGCCAAGGCTTCCGATATGGTATCGACATCCCGTATCCT
 AGTTGCAGTAGTGAAGATGTGCTATGAGGCTAAAGAATGGGATTTACTTAATGAAAATATTATGCTTTTG
 TCCAAAAGGCGGAGTCAGTTAAAACAAGCTGTTGCCAAAATGGTTCAACAGTGTGTACTTATGTTGAGG
 AAATCACAGACCTTCTATCAAACCTCGATTAATTGATACTCTACGAATGGTTACCGAAGGCAAGATTTA
 TGTTGAAATTGAGCGTGCAGACTGACTAAAACATTAGCAACTATAAAAGAACAAAATGGTGATGTGAAA
 GAGGCAGCCTCCATTTTACAGGAGTTACAGGTGGAAACCTACGGGTCAATGGAAAAGAAAGCGGAGTGG
 AATTTATTTTGGAGCAAATGAGGCTCTGCCTAGCTGTGAAGGATTACATTCGAACACAAAATCATCAGCAA
 GAAAATTAACACCAAATTTTCCAGGAAGAAAATACAGAGAAAATTAAGTTGAAGTACTATAATTTAATG
 ATTCAGCTGGATCAACATGAGGGATCCTATTTGTCTATTTGTAAGCACTACAGAGCAATATATGATACTC
 CCTGTATACAGGCAGAAAAGTAAAAATGGCAGCAGGCTCTGAAGAGTGTGTACTCTATGTTATCCTGGC
 TCTTTTGAACAATGAACAGTCAGATTTGGTTCCACGAATAAGTGGTGACAAGAAGTTAGAAGAAATCCC
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 TGAAAAAGGTTGAAAGACTTGAAGAACAGAGTTGTTGAACATAATATTAGAATAATGGCCAAGTATTAT
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 CAAATCTAGTAGTTAACAAGACCATCTTTGCTAAAGTAGACAGATTAGCAGGAATTATCAACTTCCAGAG
 ACCCAAGGATCCAATAATTTTAAATGACTGGTCTCAGAAAAGTGAAGTCAATTAATGTCTCTGGTTAAC
 AAAACTACGCATCTCATAGCCAAAGAGGAGATGATACATAATCTACAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG226555 representing NM_174871
 Red=Cloning site Green=Tags(s)

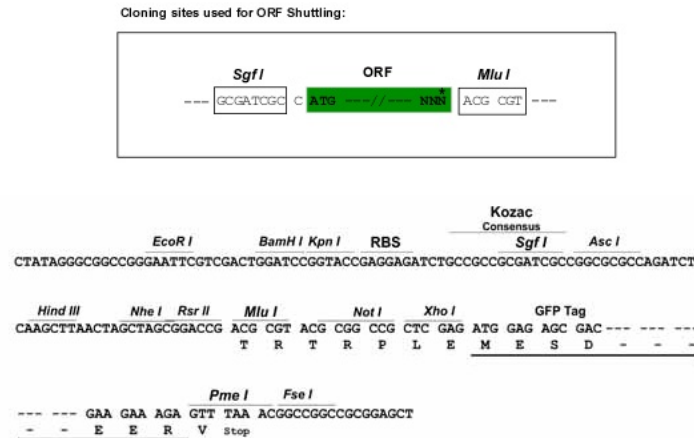
MADGGSERADGRIVKMEVDYSATVDQRLPECAKLAKASDMVSTSRILVAVVKMCYEAKEDLLNENIMLL
 SKRRSQLKQAVAKMVQCCTYVEEITDLPKLRIDTLRMVTEGKIYVEIERARLTKTLATIKEQNGDVK
 EAASILQELQVETYGSMKKERVEFILEQMRLCLAVKDYIRTQIISKKINTKFFQEENTEKLLKLYYNLM
 IQLDQHEGSYLSICKHYRAIYDTPCIQAESEKWQALKSVVLYVILAPFDNEQSDLVHRISGDKLEEIP
 KYKDLLKLFMTMELMRWSTLVEDYGMELRKGSLSPATDVFVGSTEEGKRWKDLKNRVVEHNIRIMAKYY
 TRITMKRMAQLLDLSDVESEAFLSNLVVKNTIFAKVDRLAGIINFQRPKDPNNLLNDWSQKLNLSMLVN
 KTHLIAKEEMIHNLQ

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_174871

ORF Size: 1308 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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).

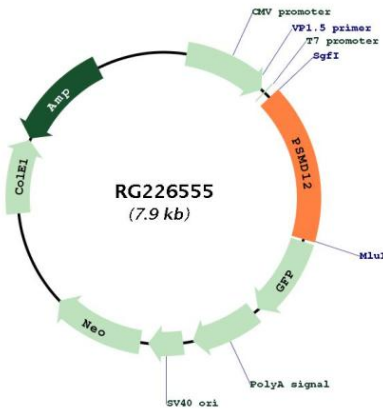
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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_174871.4](#)

RefSeq Size: 1737 bp
 RefSeq ORF: 1311 bp
 Locus ID: 5718
 UniProt ID: [O00232](#)
 Cytogenetics: 17q24.2
 Protein Pathways: Proteasome

Gene Summary: The 26S proteasome is a multicatalytic proteinase complex with a highly ordered structure composed of 2 complexes, a 20S core and a 19S regulator. The 20S core is composed of 4 rings of 28 non-identical subunits; 2 rings are composed of 7 alpha subunits and 2 rings are composed of 7 beta subunits. The 19S regulator is composed of a base, which contains 6 ATPase subunits and 2 non-ATPase subunits, and a lid, which contains up to 10 non-ATPase subunits. Proteasomes are distributed throughout eukaryotic cells at a high concentration and cleave peptides in an ATP/ubiquitin-dependent process in a non-lysosomal pathway. An essential function of a modified proteasome, the immunoproteasome, is the processing of class I MHC peptides. This gene encodes a non-ATPase subunit of the 19S regulator. A pseudogene has been identified on chromosome 3. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2015]

Product images:



Circular map for RG226555