

Product datasheet for **RG239475**

PSMD2 (NM_001278709) Human Tagged ORF Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | PSMD2 (NM_001278709) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | PSMD2 |
| Synonyms: | P97; RPN1; S2; TRAP2 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide
Sequence:

>RG239475 representing NM_001278709.
Blue=ORF Red=Cloning site Green=Tag(s)

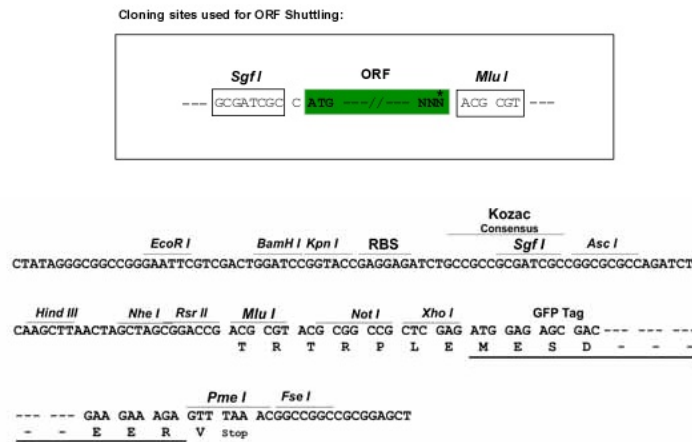
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GGTTTTGTTATCCTTCGGAAGAACCCCAATTATGATCTC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTAAAC
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Protein Sequence: >Peptide sequence encoded by RG239475
 Blue=ORF Red=Cloning site Green=Tag(s)

MMSGSEVAKEWQELDDAEKVQREPLLT L VKEIVPYNMAHNAEHEACDLLMEIEQVDMLEKIDENAYAK
 VCLYL TSCVNYVPEPENSALLRCALGVFRKFSRFPEALRLALMLNDMELVEDIFTCKDVVVQKQMAFM
 LGRHGVFLELSEDVVEEYEDL TEIMSNVQLNSNFLALARELDIMEPKVPDDIYKTHLENNRFGGSGSQVD
 SARMNLAASFVNGFVNAAFGQDKLLTDDGNKWL YKNKDHGML SAAASLGMILLWDVDGGLTQIDKYLYS
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 EA I LAAL E VVSEPF R S F AN T L V D V C A Y A G S G N V L K V Q Q L L H I C S E H F D S K E K E E D K D K K E K D K D K K E A
 PADMGAHQGVAVL G I A L I A M G E E I G A E M A L R T F G H L L R Y G E P T L R R A V P L A L A L I S V S N P R L N I L D T L S
 K F S H D A D P E V S Y N S I F A M G M V G S G T N N A R L A A M L R Q L A Q Y H A K D P N N L F M V R L A Q G L T H L G K G T L T L C P
 Y H S D R Q L M S Q V A V A G L L T V L V S F L D V R N I I L G K S H Y V L Y G L V A A M Q P R M L V T F D E E L R P L P V S V R V G Q A
 V D V V G Q A G K P K T I T G F Q T H T P V L L A H G E R A E L A T E E F L P V T P I L E G F V I L R K N P N Y D L
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
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 SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFLSRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
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Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001278709

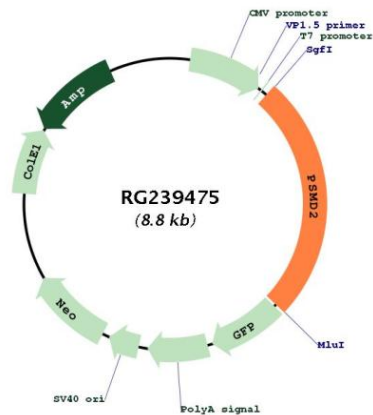
ORF Size: 2247 bp

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.

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| 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). |
| RefSeq: | NM_001278709.2 |
| RefSeq Size: | 2644 bp |
| RefSeq ORF: | 2250 bp |
| Locus ID: | 5708 |
| UniProt ID: | Q13200 |
| Cytogenetics: | 3q27.1 |
| Protein Families: | Druggable Genome |
| Protein Pathways: | Proteasome |
| MW: | 82.6 kDa |
| 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 one of the non-ATPase subunits of the 19S regulator lid. In addition to participation in proteasome function, this subunit may also participate in the TNF signalling pathway since it interacts with the tumor necrosis factor type 1 receptor. A pseudogene has been identified on chromosome 1. Alternative splicing results in multiple transcript variants of this gene. [provided by RefSeq, Jul 2013] |

Product images:



Circular map for RG239475