

Product datasheet for **RC202708**

PSMA3 (NM_152132) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PSMA3 (NM_152132) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: PSMA3
Synonyms: HC8; PSC3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC202708 representing NM_152132
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGCTCAATCGGCACTGGGTATGACCTGTCAGCCTCTACATTCTCCTGACGGAAGAGTTTTTCAAG
 TTGAATATGCTATGAAGGCTGTGGAAAATAGTAGTACAGCTATTGGAATCAGATGCAAAGATGGTGTGT
 CTTTGGGGTAGAAAAATTAGTCCTTTCTAACTTTATGAAGAAGGTTCCAACAAAAGACTTTTTAATGTT
 GATCGGCATGTTGAATGGCAGTAGCAGGTTTGTGGCAGATGCTCGTTCTTTAGCAGACATAGCAAGAG
 AAGAAGCTTCCAACCTCAGATCTAACTTTGGCTACAACATTCCTAAACATCTTGCAGACAGAGTGGC
 CATGTATGTGCATGCATATACACTCTACAGTGTGTTAGACCTTTTGGCTGCAGTGTGAATGACGGTGGC
 CAACTCTACATGATTGACCCATCAGGTGTTTCATACGGTTATTGGGGCTGTGCCATCGGCAAGCCAGGC
 AAGCTGCAAAGACGGAATAGAGAAGCTTCAGATGAAAGAAATGACCTGCCGTGATATCGTTAAAGAAGT
 TGCAAAAATAATTTACATAGTACATGACGAAGTTAAGGATAAAGCTTTTGAAGTAACTCAGCTGGGTT
 GGTGAATTAATAATGGAAGACATGAAATTGTTCCAAAAGATATAAGAGAAGAAGCAGAGAAATATGCTA
 AGGAATCTCTGAAGGAAGAAGATGAATCAGATGATGATAATATG

AG**CGGACCG**ACGCGTACGGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC202708 representing NM_152132
Red=Cloning site Green=Tags(s)

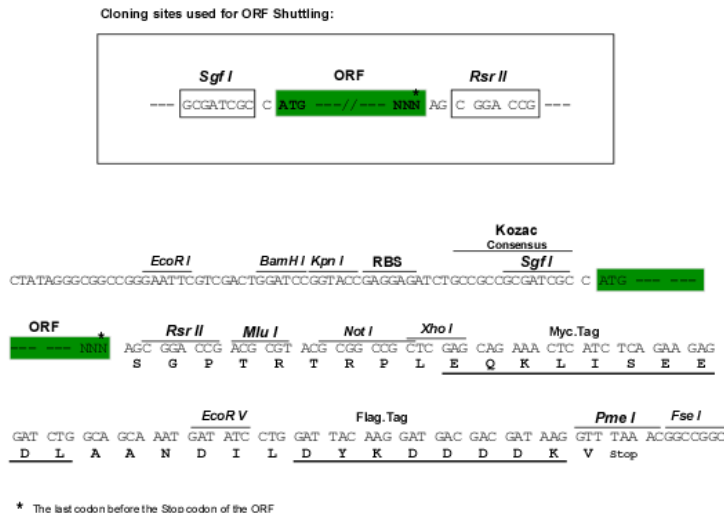
MSSIGTGYDLSASTFSPDGRVVFQVEYAMKAVENTSSTAIGIRCKDGVVFGVEKLVLSKLYEEGSNKRLFNV
 DRHVGMVAVGLLADARSLADIAREEASNFRSNFGYNIPLKHLADRVAMYVHAYTLYSAVRPFPGCSVNDGA
 QLYMIDPSGVSYGYWGCATGKARQAATEIEKLQMKEMTCRDIVKEVAKIIYIVHDEVKDKAFELELSWV
 GELTNGRHEIVPKDIREEAKEYAKESLKEEDESDDDNM

SGPTRRRLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1440_h07.zip

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM_152132

ORF Size: 744 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_152132.3](#)

RefSeq Size: 938 bp

RefSeq ORF: 747 bp

Locus ID: 5684

UniProt ID: [P25788](#)

Cytogenetics: 14q23.1

Domains: proteasome

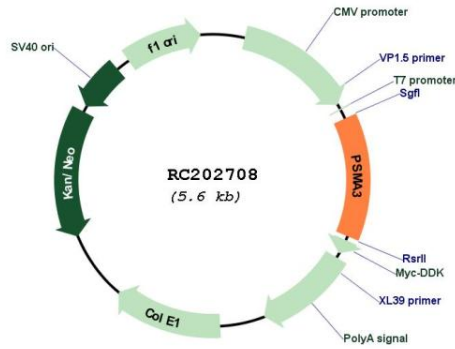
Protein Families: Druggable Genome, Protease, Stem cell - Pluripotency

Protein Pathways: Proteasome

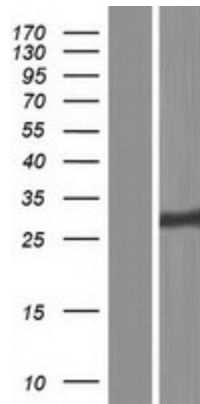
MW: 27.5 kDa

Gene Summary: The proteasome is a multicatalytic proteinase complex with a highly ordered ring-shaped 20S core structure. The core structure 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. 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 member of the peptidase T1A family, that is a 20S core alpha subunit. Two alternative transcripts encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC202708



Western blot validation of overexpression lysate (Cat# [LY407718]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202708 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).