

Product datasheet for RC231994

Proteasome 20S alpha 5 (PSMA5) (NM_001199773) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Proteasome 20S alpha 5 (PSMA5) (NM_001199773) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: PSMA5
Synonyms: PSC5; ZETA
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC231994 representing NM_001199773
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAGCCAGCAGCATTGAGAAAATTGTAGAGATTGATGCTCACATAGGTTGTGCCATGAGTGGGCTAA
TTGCTGATGCTAAGACTTTAATTGATAAAGCCAGAGTGGAGACACAGAACCCTGGTTCACCTACAATGA
GACAATGACAGTGGAGAGTGTGACCCAAGCTGTGTCCTCAATCTGGCTTTGCAGTTTGGAGAAGAAGATGCA
GATCCAGGTGCCATGTCTCGTCCCTTTGGAGTAGCATTATTATTTGGAGGAGTTGATGAGAAAGGACCCC
AGCTGTTTCATATGGACCCATCTGGGACCTTTGTACAGTGTGATGCTCGAGCAATTGGCTCTGCTTCAGA
GGGTGCCAGAGCTCCTTGAAGAAGTTTACCACAAGTCTATGACTTTGAAAGAAGCCATCAAGTCTTCA
CTCATCATCTCAAACAAGTAATGGAGGAGAAGCTGAATGCAACAACATTGAGCTAGCCACAGTGCAGC
CTGGCCAGAATTTCCACATGTTCCAAAAGGAAGAACTTGAAGAGGTTATCAAGGACATT

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC231994 representing NM_001199773
Red=Cloning site Green=Tags(s)

MEPSSIEKIVEIDAHIGCAMSLIADAKTLIDKARVETQNHWFYNETMTVESVTQAVSNLALQFGEEDA
DPGAMSRPFGVALLFGGVDEKGPQLFHMDPSGTFVQCDARAIGSASEGAQSSLQEVYHKSMTLKEAIKSS
LIILKQVMEEKLNATNIELATVQPGQNFHMFKEELEEVIKDI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



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:	<ol style="list-style-type: none">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_001199773.2
RefSeq Size:	3746 bp
RefSeq ORF:	552 bp
Locus ID:	5686
UniProt ID:	P28066
Cytogenetics:	1p13.3
Protein Families:	Druggable Genome, Protease
Protein Pathways:	Proteasome
MW:	20.5 kDa
Gene Summary:	<p>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. Multiple alternatively spliced transcript variants encoding two distinct isoforms have been found for this gene. [provided by RefSeq, Dec 2010]</p>