

Product datasheet for **RG202786**

PSMA4 (NM_002789) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PSMA4 (NM_002789) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PSMA4
Synonyms:	HC9; HsT17706; PSC9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG202786 representing NM_002789 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCTCGAAGATATGACTCCAGGACCACTATATTTTCTCCAGAAGTCGCTTATACCAAGTTGAATATG
CCATGGAAGCTATTGGACATGCAGGCACCTGTTTGGGAATTTAGCAAATGATGGTGTTTTGCTGCAGC
AGAGAGACGCAACATCCACAAGCTTCTTGATGAAGTCTTTTTTCTGAAAAATTTATAAACTCAATGAG
GACATGGCTTGCAGTGTGCAGGCATAACTTCTGATGCTAATGTTCTGACTAATGAACTAAGGCTCATTG
CTCAAAGTATTTATTACAGTATCAGGAGCCAATACCTTGTGAGCAGTTGGTTACAGCGCTGTGTGATAT
CAAACAAGCTTATACACAATTTGGAGGAAAACGTCCTTTGGTGTTCATTGCTGTACATTGGCTGGGAT
AAGCACTATGGCTTTTCAGCTCTATCAGAGTGACCTAGTGAAATACGGGGGATGGAAGGCCACATGCA
TTGGAAATAATAGCGCTGCAGCTGTGTCAATGTTGAAACAAGACTATAAAGAAGGAGAAATGACCTTGAA
GTCAGCACTTGCTTTAGCTATCAAAGTACTAAATAAGACCATGGATGTTAGTAACTCTCTGCTGAAAA
GTGGAAATTGCAACACTAACAAGAGAGAATGGAAGACAGTAATCAGAGTTCTCAAACAAAAAGAAGTGG
AGCAGTTGATCAAAAAACAGGAGGAAGAAGAAGCCAAAGCTGAGCGTGAGAAGAAAGAAAAAGACAGAA
AGAAAAGGATAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG202786 representing NM_002789
 Red=Cloning site Green=Tags(s)

MSRRYDSRTTIFSPGRLYQVEYAMEAIGHAGTCLGILANDGVLLAAERRNIHKLLDEVFFSEKIYKLINE
 DMACSVAGITSDANVLNLRRLIAQRYLLQYQEPICEQLVTALCDIKQAYTQFGGKRPFVSVLLYIGWD
 KHYGFQLYQSDPSGNYGGWKATCIGNNSAAAVSMLKQDYKEGEMTLKSALALAIKVLNKTMDVSKLSAEK
 VEIATLTRENGKTVIRVLKQKEVEQLIKKHEEEEEAKAEREKKEKEQKEKDK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002789

ORF Size: 783 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_002789.2](#)

RefSeq Size: 1189 bp

RefSeq ORF: 786 bp

Locus ID: 5685

UniProt ID: [P25789](#)

Cytogenetics: 15q25.1

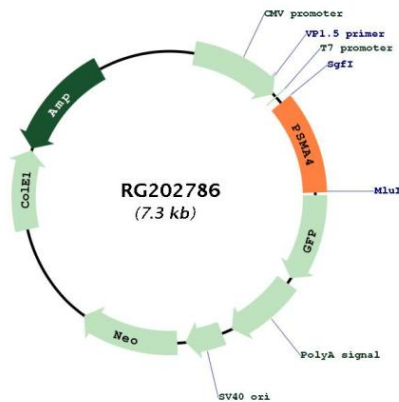
Domains: proteasome

Protein Families: Druggable Genome, Protease

Protein Pathways: Proteasome

Gene Summary: This gene encodes a core alpha subunit of the 20S proteasome, which is a highly ordered ring-shaped structure composed of four rings of 28 non-identical subunits. Proteasomes cleave peptides in an ATP- and ubiquitin-dependent manner. [provided by RefSeq, Aug 2016]

Product images:



Circular map for RG202786