

Product datasheet for **RG220432**

PSMA4 (NM_001102668) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PSMA4 (NM_001102668) 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: >RG220432 representing NM_001102668
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTTGCAGTGTGGCAGGCATAAATTCTGATGCTAATGTTCTGACTAATGAACGAAGGCTCATTGCTC
AAAGGTATTTATTACAGTATCAGGAGCCAATACCTTGTGAGCAGTTGGTTACAGCGCTGTGTGATATCAA
ACAAGCTTATACACAATTTGGAGGAAAACGTCCCTTTGGTGTTCATTGCTGTACATTGGCTGGGATAAG
CACTATGGCTTTCAGCTCTATCAGAGTGACCCTAGTGAAATTACGGGGATGGAAGGCCACATGCATTG
GAAATAATAGCGCTGCAGCTGTGCAATGTTGAAACAAGACTATAAAGAAGGAGAAATGACCTTGAAGTC
AGCACTTGCTTTAGCTATCAAAGTACTAAATAAGACCATGGATGTTAGTAACTCTCTGCTGAAAAAGTG
GAAATTGCAACACTAACAAGAGAGAATGGAAAGACAGTAATCAGAGTTCTCAAACAAAAAGAGTGGAGC
AGTTGATCAAAAAACATGAGGAAGAAGAAGCCAAAGCTGAGCGTGAGAAGAAAAGAAAAGAACAGAAAGA
AAAGGATAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG220432 representing NM_001102668
Red=Cloning site Green=Tags(s)

MACSVAGITSDANVLTNELRLIAQRYLLQYQEPICEQLVTALCDIKQAYTQFGGKRPFGVSLLYIGWDK
HYGFQLYQSDPSGNYGGWKATCIGNNSAAAVSMLKQDYKEGEMTLKSALALAIKVLNKTMDVSKLSAEKV
E IATLTRENGKTVIRVLKQKEVEQLIKKHEEEEEAKAEREKKEKEQEKDK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

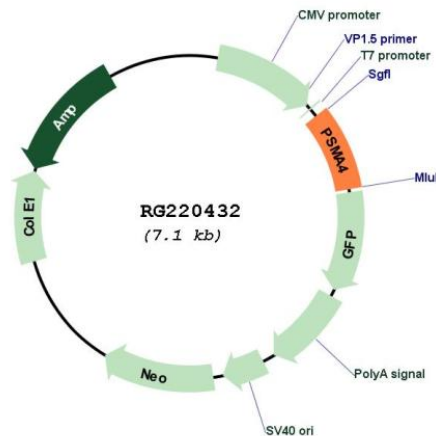


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001102668

ORF Size: 570 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_001102668.2](#)

RefSeq Size: 1072 bp

RefSeq ORF: 573 bp

Locus ID: 5685

UniProt ID: [P25789](#)

Cytogenetics: 15q25.1

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]