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Product datasheet for RC222011

POMZP3 (NM_012230) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	POMZP3 (NM_012230) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	POMZP3
Synonyms:	POM-ZP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC222011 representing NM_012230
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTGTGTAGCCCAGTGACTCTGAGGATCGCCCCTCCTGACAGAAGATTTTCGCGTTCTGCGATACCAG
AGCAGATAATCAGCTCAACACTGTCCTCACCATCAAGTAATGCCCCAGACCCATGTGCAAAGGAGACTGT
ACTGAGTGCCCTCAAAGAGAAGAAGAAGAAAAGGACAGTGGAGGAAGAAGACCAAATATTCCTTGATGGC
CAGGAAAATAAAAGAAGCTGTCTTGTCGACGGTCTCACTGATGCCTCTTCTGCATTCAAAGTTCCTCGAC
CCGGGCCAGATACACTCCAGTTCACAGTGGATGTCTTCCACTTTGCTAATGACTCCAGAAACATGATATA
CATCACCTGCCACCTGAAGGTCACCCTAGCTGAGCAGGACCCAGATGAACTCAACAAGGCCTGTTCCTTC
AGCAAGCCTTCCAACAGCTGGTTCCCAGTGGAAGGCCCGGCTGACATCTGTCAATGCTGTAACAAAGGTG
ACTGTGGCACTCCAAGCCATTCCAGGAGGCAGCCTCGTGTCGTGAGCCAGTGGTCCACGTCTGCTTCCCG
TAACCGCAGGCATGTGACAGAAGAAGCAGATGTCACCGTGGGGGCCACTGATCTTCCTGGACAGGAGTGG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC222011 representing NM_012230
Red=Cloning site Green=Tags(s)

MVCSPVTLRIAPPDRRFSRSAIPEQIISSTLSSPSSNAPDPCAKETVLSALKEKKKKRTVEEEDQIFLDG
QENKRSCLVDGLTDASSAFKVPRPGPDTLQFTVDVFHFANDSRNMIYITCHLKVTLAEQDPDELNKACSF
SKPSNSWFPVEGPADICQCCNKGDCGTPSHSRRQPRVVSQWSTSASRNRRHVTEEADVTVGATDLPGQEW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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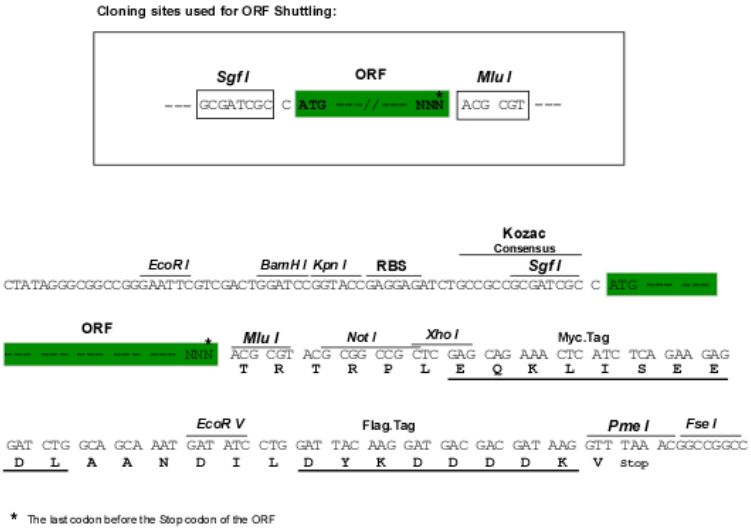
Chromatograms: https://cdn.origene.com/chromatograms/mk6045_d08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_012230

ORF Size: 630 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_012230.2, NP_036362.2

RefSeq Size: 1493 bp

RefSeq ORF: 564 bp

Locus ID: 22932

UniProt ID: Q6PJE2

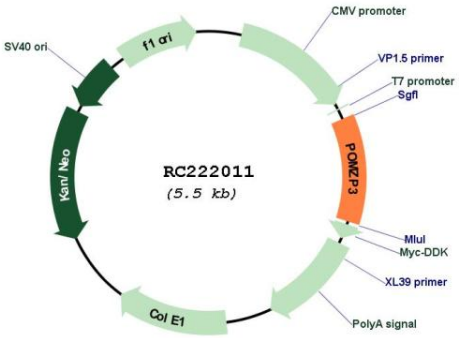
Cytogenetics: 7q11.23

Protein Families: Druggable Genome

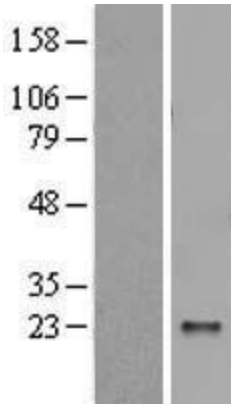
MW: 23.21 kDa

Gene Summary: This gene appears to have resulted from a fusion of DNA sequences derived from 2 distinct loci, specifically through the duplication of two internal exons from the POM121 gene and four 3' exons from the ZP3 gene. The 5' end of this gene is similar to the 5` coding region of the POM121 gene which encodes an integral nuclear pore membrane protein. However, the protein encoded by this gene lacks the nuclear pore localization motif. The 3' end of this gene is similar to the last 4 exons of the zona pellucida glycoprotein 3 (ZP3) gene and the encoded protein retains one zona pellucida domain. Multiple protein isoforms are encoded by transcript variants of this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC222011



Western blot validation of overexpression lysate (Cat# [LY402170]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222011 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).