

Product datasheet for RC239882

USP8 (NM_001283049) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	USP8 (NM_001283049) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	USP8
Synonyms:	HumORF8; PITA4; SPG59; UBPY
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC239882 representing NM_001283049 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCTGCTGTGGCTTCAGTTCCTAAAGAACTCTACCTCAGTTCTTCACTAAAAGACCTTAATAAGAAGA
CAGAAGTTAAACCAGAGAAAATAAGCACTAAGAGATATGAAGAAGCTGAAGTCCGGAAAAAAGTGGAGGA
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CATCTGTGACAGGGGATT CAGGTT CAGGCAAGGCTCAACGAGAACCTTTGACAAGAGCACGAAGTGAAGA
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 ACAAGGATGACGACGAT AAGGTTTAA

Protein Sequence:

>RC239882 representing NM_001283049
 Red=Cloning site Green=Tags(s)

MPAVASVPKEL YLSSSLKDLNKKTEVKPEKISTKRYEEAEVRKKLEEKDRQEEAQRLLQQRQETGREDGG
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 SLVPEEAI SPGVTASWIEAHL PDDSKD TWKRGVVEYVLLDWFSSAKDLQIGTTLRSLKDALFKWESK
 TVLRNEPLVLEGGYENWLLCYPQYTTNAKVTPPPRRQNEEVSISLDFTYPSLEESIPSKPAAQTPPASIE
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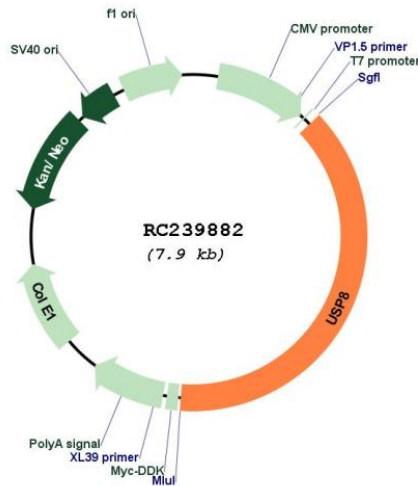
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001283049

ORF Size: 3036 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:	<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_001283049.2
RefSeq Size:	5250 bp
RefSeq ORF:	3039 bp
Locus ID:	9101
UniProt ID:	P40818
Cytogenetics:	15q21.2
Protein Families:	Druggable Genome, Protease
Protein Pathways:	Endocytosis
MW:	115.5 kDa
Gene Summary:	This gene encodes a protein that belongs to the ubiquitin-specific processing protease family of proteins. The encoded protein is thought to regulate the morphology of the endosome by ubiquitination of proteins on this organelle and is involved in cargo sorting and membrane trafficking at the early endosome stage. This protein is required for the cell to enter the S phase of the cell cycle and also functions as a positive regulator in the Hedgehog signaling pathway in development. Pseudogenes of this gene are present on chromosomes 2 and 6. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Sep 2013]