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Product datasheet for RC227756

OSBPL5 (NM_001144063) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	OSBPL5 (NM_001144063) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	OSBPL5
Synonyms:	OBPH1; ORP5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC227756 representing NM_001144063
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAGGAGGAGGCCTTCCTCCGGCGCCGCTTCTCCCTGTGTCCACCTTCCTCCACCCCTCAGAAAGTCG
ACCCCCGGAAGCTCACCCGGAACTTGCTCCTCAGCGGAGACAATGAGCTCTACCCACTCAGCCCAGGGAA
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ATGCTGAGCTCCACGGCACGGGCAGCACAGGCACCGACCCCAGGCCTCCTGCAGAGCCCCCGATCCTGGT
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC227756 representing NM_001144063
Red=Cloning site Green=Tags(s)

MKEEAFLRRRFSLCPPSSTPQKVDPRKLTRNLLLSGDNELYPLSPGKDMEPNGPSLPRDEGPPTPSSATK
VPPAEYRLCNGSDKECVSPTARVTKKETLKAQKENYRQEKKRATRQLLSALTDPSVVIMADSLKGPKGES
VGSITQPLPSSYLIFRAASESDGRCWLDALELALRCSSLLRLGTCKPGRDGEPGTSPDASPSSLCGLPAS
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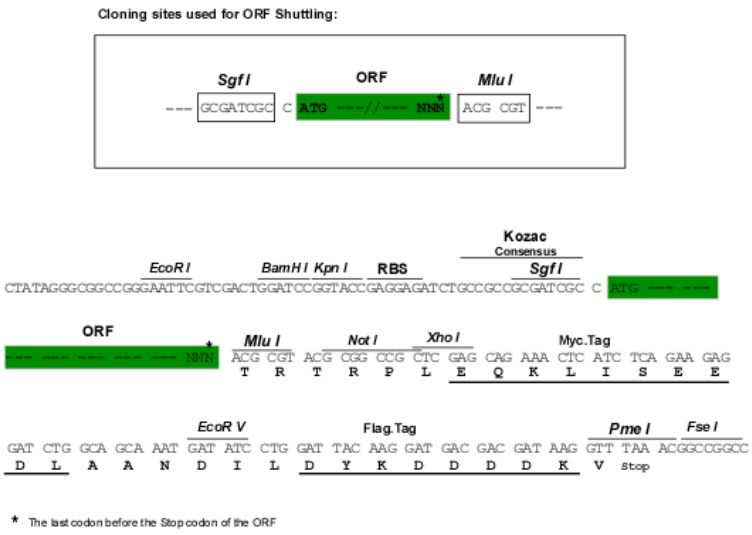
EELGELGEASQVETVSEENKSLMWTLLKQLRPGMDLSRVVLPTFVLEPRSFLNKLSDYYYHADLLSRAAV
EEDAYSRMKLVLRWYLSGFYKKPKGIKKPYNPILGETFRCCWFHPQTDSRTFYIAEQVSHHPPVSAFHVS
NRKDGFCISGSITAKSRFYGNSLSALLDGKATLTFLNRAEDYTLTMPYAHCKGILYGTMTLELGGKVTIE
CAKNNFQAQLEFKLKPFFGGSTSINQISGKITSGEEVLASLSGHWDRDVFIKEEGSGSSALFWTPSGEVR
RQRLRQHTVPLEEQTELESERLWQHVTRAISKGDQHRATQEKFALEEAQRQRARERQESLMPWKPQLFHL
DPITQEWHYRYEDHSPWDPLKDIAQFEQDGILRTLQQEAVARQTTFLGSPGPRHERSGPDQRLRKASDQP
SGHSQATESSGSTPESCPELSDEEQDGDFVPGGESPCPRCRKEARRLQALHEAILSIREAQQELHRHLSA
MLSSTARAAQAPTPGLLQSPRSWFLLCVFLACQLFINHILK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg3434_g05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN:	NM_001144063
ORF Size:	2433 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_001144063.2

RefSeq ORF: 2436 bp

Locus ID: 114879

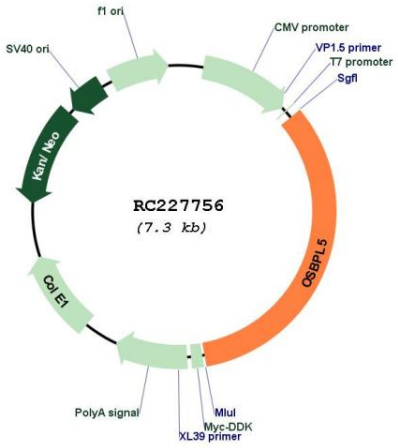
UniProt ID: Q9H0X9

Cytogenetics: 11p15.4

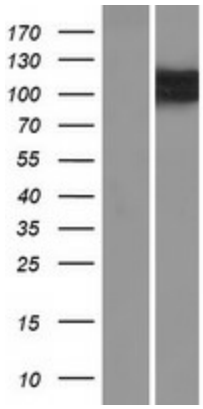
MW: 90.6 kDa

Gene Summary: This gene encodes a member of the oxysterol-binding protein (OSBP) family, a group of intracellular lipid receptors that play a key role in the maintenance of cholesterol balance in the body. Most members contain an N-terminal pleckstrin homology domain and a highly conserved C-terminal OSBP-like sterol-binding domain. This gene has been shown to be imprinted, with preferential expression from the maternal allele only in placenta. Transcript variants encoding different isoforms have been identified. [provided by RefSeq, Oct 2010]

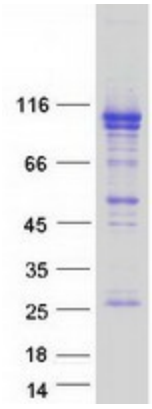
Product images:



Circular map for RC227756



Western blot validation of overexpression lysate (Cat# [LY428490]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC227756 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified OSBPL5 protein (Cat# [TP327756]). The protein was produced from HEK293T cells transfected with OSBPL5 cDNA clone (Cat# RC227756) using MegaTran 2.0 (Cat# [TT210002]).