**OriGene Technologies, Inc.**
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

# Product datasheet for RC222127

## ORP8 (OSBPL8) (NM_020841) Human Tagged ORF Clone

### Product data:

| | |
|---|---|
| **Product Type:** | Expression Plasmids |
| **Product Name:** | ORP8 (OSBPL8) (NM_020841) Human Tagged ORF Clone |
| **Tag:** | Myc-DDK |
| **Symbol:** | ORP8 |
| **Synonyms:** | MST120; MSTP120; ORP8; OSBP10 |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |

**ORF Nucleotide Sequence:**

>RC222127 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGGGAGGTTTGGCAGATGGAGAACCTGATCGAACTTCGCTTCTTGGTGATAGCAAAGATGTCCTTG
GGCCATCAACTGTTGTAGCAAACAGTGACGAATCTCAGCTTCTGACACCAGGAAAGATGAGTCAGCGCCA
AGGAAAAGAAGCTTATCCAACGCCAACCAAAGATTTGCATCAGCCATCTCTTAGTCCAGCAAGTCCTCAT
AGCCAGGGTTTTGAAAGAGGGAAGGAAGATATTTCTCAAAATAAAGATGAATCTTCACTTTCTATGTCAA
AGAGCAAGTCTGAATCTAAACTTTATAATGGCTCAGAGAAGGACAGTTCAACTTCAAGCAAACTCACAAA
AAAAGAATCTCTTAAGGTACAAAAGAAAAATTACCGAGAAGAAAAGAAAAGAGCCACAAAGGAGCTGCTC
AGTACAATCACAGATCCTTCTGTTATTGTTATGGCTGATTGGTTAAAGATTCGTGGTACTCTAAAGAGCT
GGACCAAGTTATGGTGTGTGTTGAAACCTGGGGTGCTACTGATCTATAAAACCCAAAAAAATGGTCAGTG
GGTAGGAACAGTTCTTCTGAATGCCTGTGAAATCATTGAACGTCCATCAAAAAAGGATGGCTTTTGTTTC
AAACTTTTCCATCCTTTGGAGCAATCTATTTGGGCAGTGAAGGGTCCAAAAGGTGAAGCGGTTGGATCCA
TTACTCAACCCTTACCTAGCAGTTATTTGATCATCCGAGCTACTTCAGAGTCAGATGGAAGGTGCTGGAT
GGATGCTTTGGAGTTGGCTTTGAAATGTTCTAGTCTTCTTAAACGTACAATGATCAGAGAAGGAAAGGAA
CATGACCTGAGCGTTTCATCAGATAGCACACATGTGACTTTCTATGGCTTACTACGTGCTAACAATCTCC
ACAGTGGTGATAACTTCCAGTTAAATGATAGTGAAATTGAACGACAACATTTTAAGGACCAAGATATGTA
TTCTGATAAATCTGATAAAGAAAATGATCAAGAACATGATGAGTCTGATAATGAGGTGATGGGGAAAAGT
GAAGAAAGTGACACAGATACATCAGAAAGACAAGATGACTCATATATCGAACCTGAGCCTGTTGAGCCTT
TAAAGGAGACTACCTACACTGAACAGAGCCATGAAGAACTTGGAGAGGCAGGTGAGGCTTCTCAAACAGA
AACTGTATCTGAAGAAAACAAAAGCCTTATCTGGACACTATTGAAACAAGTCCGTCCTGGCATGGACCTA
TCCAAGGTGGTTCTGCCTACATTTATTTTGGAACCCCGTTCTTTCCTGGATAAACTTTCAGATTACTACT
ATCATGCAGATTTCCTATCTGAGGCAGCTCTTGAAGAAAATCCTTATTTCCGTTTGAAGAAAGTAGTGAA
ATGGTATTTGTCAGGATTCTATAAAAAGCCAAAGGGACTGAAGAAACCTTATAATCCTATACTTGGCGAG
ACTTTCCGTTGTTTATGGATTCATCCCAGAACAAACAGCAAAACTTTTTATATTGCTGAACAGGTGTCCC
ATCATCCACCAATATCTGCCTTTTATGTTAGTAATCGAAAAGATGGATTTTGCCTTAGCGGTAGTATCCT
GGCTAAGTCTAAGTTTTATGGAAACTCATTATCTGCAATATTAGAGGGAGAAGCACGGTTAACTTTCTTG
AATAGAGGTGAAGATTATGTAATGACAATGCCATACGCTCATTGTAAAGGAATTCTTTATGGTACAATGA
CACTGGAGCTTGGTGGAACAGTCAATATTACATGTCAAAAAACTGGATACAGTGCAATACTTGAATTTAA
ACTAAAGCCATTCCTAGGGAGTAGTGACTGTGTTAATCAAATATCAGGGAAACTTAAACTGGGAAAAGAA
GTCCTAGCTACTTTGGAAGGTCATTGGGATAGTGAAGTTTTTATTACTGATAAAAAGACTGATAATTCAG
AGGTTTTCTGGAATCCAACACCTGACATTAAGCAATGGAGATTAATAAGGCACACTGTAAAATTTGAAGA
ACAGGGAGATTTTGAATCAGAGAAACTCTGGCAACGGGTAACTCGAGCCATAAATGCCAAAGACCAAACT
GAAGCTACCCAAGAGAAGTATGTTTTGGAAGAAGCTCAAAGACAAGCTGCCAGGGATCGGAAAACAAAAA
ATGAAGAGTGGTCTTGCAAATTATTTGAACTTGATCCACTCACAGGAGAATGGCATTACAAGTTTGCAGA
TACCCGACCATGGGACCCACTTAATGATATGATACAGTTTGAAAAAGATGGTGTTATTCAGACCAAAGTG
AAACATCGTACTCCAATGGTTAGCGTCCCCAAAATGAAACATAAGCCAACCAGGCAACAGAAGAAAGTAG
CAAAAGGCTATTCCTCCCCAGAACCTGACATTCAAGACTCCTCTGGAAGTGAAGCTCAATCAGTAAAACC
AAGTACAAGAAGAAAGAAAGGAATAGAACTGGGAGACATTCAGAGTTCCATCGAATCTATAAAACAAACA
CAGGAAGAAATTAAAAGAAATATTATGGCTCTTCGAAATCATTTAGTTTCAAGCACACCGGCCACGGATT
ATTTTCTGCAACAAAAAGACTACTTCATCATTTTCCTCCTGATTTTGCTTCAAGTCATAATAAACTTCAT
GTTCAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC222127 protein sequence
Red=Cloning site Green=Tags(s)

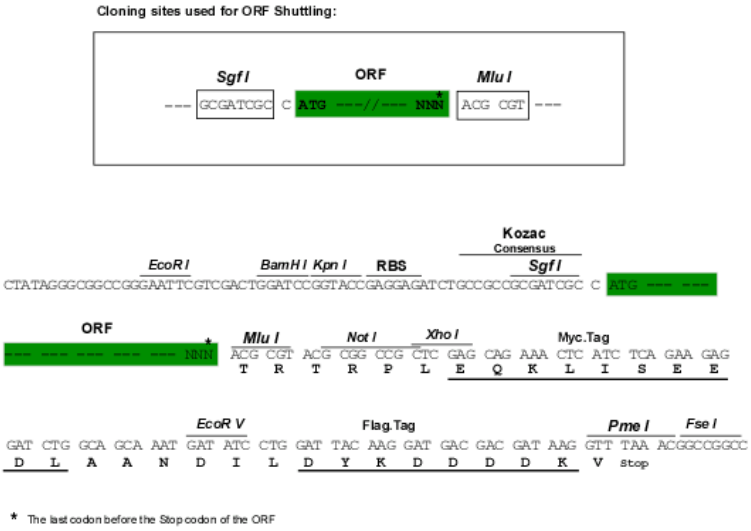
MEGGLADGEPDRTSLLGDSKDVLGPSTVVANSDESQLLTPGKMSQRQGKEAYPTPTKDLHQPSLSPASPH
SQGFERGKEDISQNKDESSLSMSKSKSESKLYNGSEKDSSTSSKLTKKESLKVQKKNYREEKKRATKELL
STITDPSVIVMADWLKIRGTLKSWTKLWCVLKPGVLLIYKTQKNGQWVGTVLLNACEIIERPSKKDGFCF
KLFHPLEQSIWAVKGPKGEAVGSITQPLPSSYLIIRATSESDGRCWMDALELALKCSSLLKRTMIREGKE
HDLSVSSDSTHVTFYGLLRANNLHSGDNFQLNDSEIERQHFKDQDMYSDKSDKENDQEHDESDNEVMGKS
EESDTDTSERQDDSYIEPEPVEPLKETTYTEQSHEELGEAGEASQTETVSEENKSLIWTLLKQVRPGMDL
SKVVLPTFILEPRSFLDKLSDYYYHADFLSEAALEENPYFRLKKVVKWYLSGFYKKPKGLKKPYNPILGE
TFRCLWIHPRTNSKTFYIAEQVSHHPPISAFYVSNRKDGFCLSGSILAKSKFYGNSLSAILEGEARLTFL
NRGEDYVMTMPYAHCKGILYGTMTLELGGTVNITCQKTGYSAILEFKLKPFLGSSDCVNQISGKLKLGKE
VLATLEGHWDSEVFITDKKTDNSEVFWNPTPDIKQWRLIRHTVKFEEQGDFESEKLWQRVTRAINAKDQT
EATQEKYVLEEAQRQAARDRKTKNEEWSCKLFELDPLTGEWHYKFADTRPWDPLNDMIQFEKDGVIQTKV
KHRTPMVSVPKMKHKPTRQQKKVAKGYSSPEPDIQDSSGSEAQSVKPSTRRKKGIELGDIQSSIESIKQT
QEEIKRNIMALRNHLVSSTPATDYFLQQKDYFIIFLLILLQVIINFMFK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** https://cdn.origene.com/chromatograms/mk6602_c12.zip

**Restriction Sites:** SgfI-MluI

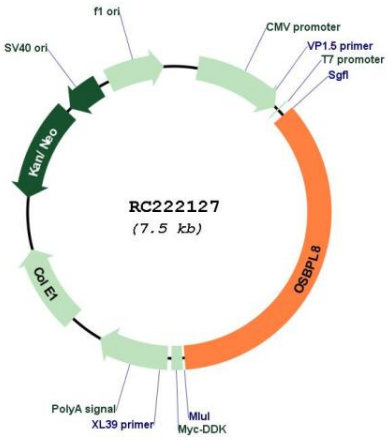
**Cloning Scheme:**




**ACCN:** NM_020841

| | |
|---|---|
| **ORF Size:** | 2667 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.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_020841.5 |
| **RefSeq Size:** | 7259 bp |
| **RefSeq ORF:** | 2670 bp |
| **Locus ID:** | 114882 |
| **UniProt ID:** | Q9BZF1 |
| **Cytogenetics:** | 12q21.2 |
| **Domains:** | Oxysterol_BP, PH |
| **Protein Families:** | Transmembrane |
| **MW:** | 101.2 kDa |
| **Gene Summary:** | This gene encodes a member of a family of proteins containing an N-terminal pleckstrin homology domain and a highly conserved C-terminal oxysterol-binding protein-like sterol-binding domain. It binds mutliple lipid-containing molecules, including phosphatidylserine, phosphatidylinositol 4-phosphate (PI4P) and oxysterol, and promotes their exchange between the endoplasmic reticulum and the plasma membrane. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2016] |

## Product images:




Circular map for RC222127