

Product datasheet for MC224943

Obsl1 (NM_178884) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Obsl1 (NM_178884) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Obsl1
Synonyms:	AW822216
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC224943 representing NM_178884 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGAAGGCCGGATCAGGGGATCAGGGGAGCCCCCGTGTTCCTACGCTTCCCGCGGCCCGTGCGGGTGG
TAAGTGGAGCGGAGGCCGAGCTCAAATGCGTGGTCTGGGAGAGCCGCCCGCTGTCTGTGGGAGAA
AGGCGGGCAGCAGCTGGTGGCTCCGAGCGCTAAGCTTCCGGAGGACGGCGCCGAGCACGGCCTGCTG
CTGAGCGGCGCGTCCCCACGACGCGGGGTCTACGTGTGCCGCGCCCAACGCGCCGAGAGGCCCT
ACGCGGCGGCCGCTCACCGTCTGGAACCCCGGCCCGAGCCGAGCCGAGTCTCCGAGTGTCC
GCTGCCAACACCGGGCACCGGGAGGGCGCCCCGAAGTTCCTGACGGGGCCCACTCCAGTGGGTGCTG
CGAGGGGAGGAGGTGGTGTGACGTGCCAGGTGGGAGGCCTTCCGGAGCCCAAGTGTACTGGGAGAAGG
ATGGGATGGCCTTGGACGAAGTATGGGACAGCAGCCACTTCAAGCTGGAGCCCGCGCGCGAGTGA
CGAGGGCGCGAGCCTGACGTTGCGCATCTGGCGGCACGGCTGCCGATTCCGGGGTGTACGTGTGTAC
GCCCCAACGCGCACGGCCACGCGCAGGCGGGCGCGTGTCCAGGTGCACAGCCCCGCGAGAGCCCGC
CCCAGGATCCCGATGAGAACCCAAACCGTGTGGAGCCGCTCAAAGGCGCGCCCAAGACCTTCTGGGT
GAACGAGGGCAAGCACGCCAAATTCGCTGCTACGTGATGGGCAAACCTGAGCCCAGATCGAATGGCAC
TTGGAGGGCGCCCTCTGCTCCCGATCGCCGCCGCTCATGTACCGCGACCGCGACGGCGCTTTGTAC
TTAAGGTGCTCTACTGCCAGGCCAAGGACCGTGGGCTCTACGTGTGCGCGCGCGCAACTCGGCGGGCCA
GACCCTAAGCGCGGTCCAGCTGCACGTGAAAGAACCCCGCTACGGTTACCCCGGCCCTGCAGGATGTG
GAGGGTCGGGAACACGGATTGTGGTGTGAGTGTAAAGTACCTAAGTCTCGAATTCACCGCGCTGGT
TCCGGGAGGACCAACGGCTGTACCTGCCGAAGTACGAGCAGATCGAGGAGGGCGCTGTGAGACGCT
CGTCATCCACAAGCTGAAGGCCGATGATGATGGCGTCTATCTGTGCGAGATGCGGGGCCGAGTGCACCT
GTGGCCAATGTGACGGTCAAAGGACCCATCTGAAGCGTTTACCCGGAAGCTTGACGCTCTGGAAGGAG
AGAACGCAGTACTGCTGGTGGAGACTCAAGAAGCTGGGGTGCAGGGGTGTGGAGCCGTGATGGGAGGA
CCTGCCAGACACCTGCCAGAGCAGTTGTGGTCATATGCATGCCCTGGTCTTCCAGGGGTGACCCGAGAA



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GATGCTGGAGAGATCACCTTCAGCCTGGGCAACTCCCGTACCACCACCCTGCTCAGAGTCAAATGTGTCA
 AGCACAGTCTCCCGGGCCCCCGTAATGGTTGAGATGTTCAAAGGCCAAAAGAACAAGTTCTGCTGAC
 CTGGAAGCCCCCAGAGCCACCTCCAGAGACCTCCTTCACTACCGCTAGAGCGGCAGGAAGTGGGGTCT
 GACGATTGGATCCAGTGCTTCAGCATTGAGAAGGCGGGAGCCGTAGAGGTGCCCGGGGACTGTGTACCCA
 CCGAGGGTGACTATCACTTCCGCATCTGCACAGTCAGTGAACATGGCCGAGTCCCCATGTCGTGTTCAA
 CGGTTCTGCTCACCTTGTGCCACAGCTCGCCTGGTGTGAGGCCTGGAAGACGTGCAGGTATATGATGGG
 GAAGATGCCGTCTTCTCCCTTGATCTGTCCGCCATCATCCAGGGCTCTTGTTCCCTTAATGGAGAGCAGC
 TCCAGAGTAATGAGCCAGAGGGCCAGGTGGAGCCTGGAGCCTGCGGTACCGCATAGAGCAGAAGGGCCT
 CCAGCACAGGCTCATCCTGCAAGCTGTCAAGCACCGGGACAGTGGGGCCCTGGTTGGCTTCAGTGCCCT
 GGTGTGAAGACTCTGCTGCCCTCACTATCCAAGAAAGCTCAGTGCACATCCTGAGTCCCCAGGACAAGG
 TGTCACTGACCTTCACGACCTCTGAACGGGTAGTGCTGACCTGTGAGCTCTCAAGGGTGGATTTTCTGCTG
 AACCTGGTACAAGGATGGGCAGAAGGTGGAGGAGAGCGAGTGCCTCATAGTGAAGACAGAGGGCCGCAAA
 CACCGACTGATCTGCCTGAGGCTCAAGTCCGAGACAGCGGTGAATTTGAGTGCAGAACGGAAGGGGTCT
 CGGCTTCTTTGGAGTCACTGTTCAAGATCCCCAGTGCACATCGTGAACCCCCAAGAGCATGTGTTTGT
 CCATGCCATCACCTCCGAGTGTGTGAGGCTGACCTGTGAGGTAGACCGAGAGGACACAACGTACACTGG
 TACAAGGATGGGCAGGAGGTGGAGGAGAGTGACATCATCGTATTAGAAAATAAAGGGCCCCATCACCGCC
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 CTTACAGTTACCATCACAGATGTCTTCTCGTGGATCGTCTACCCAGTAGCGAAGTGCATGTGGCAGCC
 GTACGCCTAGAGCGTGTGGTGTGACCTGTGAGCTGTGCCGACCCTGGGCTGAGGTGCGCTGGACCAAG
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 GCCCTCTGTCCAGCTTGAAGATTCTGGCGAGTACCTGTGTGAAATCCATGATGAGTCGGCTTCTTACCC
 ATCACCGTCACAGAGCCCCCTGTGCGGATCATATACCCAGGACGAGGTGACCTTACACGCCGTGAGTT
 TGGAAATGTGTGGTGTGCTCACCTGTGAGCTGTCTAGAGAGGATGCTCCTGTACGCTGGTACAAGGATGGGT
 AGAGGTGGAGGAGAGTGAAGCCCTGGTGTCTCAGAGCGATGGGCCCTCGTCCGCTCTGAGTTGCTGTCT
 GCCCAGCCAGAGGACGGGGCGAGTTTGTGTGTGATGCTGGGGATGATTACGCTTCTTCACTGTCACTG
 TCACAGCTCCACCAGAAAGGATTGTGACCCAGCGGCCGATCCCTGGATTGTCAGTTTGGGGCTCCAGG
 ACACGTGGAGCTACGCTGCGAAGTGGCCCCGGCTGGGTCTCAGGTGCGCTGGTACAAGGATGGCCTAGAG
 GTAGAGGTGTGAGATGCGCTGCAGCTGGGTGTGAGGGGCTGCCGCACTCTCACCTGCCCCACGCCC
 AGCCTGAGGATGCCGGGAGTATGTATGTGAGACCCGAGATGAGGCTGTACCTTCAACGTGACCTGGC
 TGAGCTTCCGGTGCAGTTTCTGGCTCCAGAGGACGCCCAATCCGCTCTGCGTGGTTCTGGGGAGCCC
 GTGGTGTGAGCTGTGAGCTGTCCGAGCAAGCGCACAAAGTGTCTGGAGCCACAATGGGAGCCCGGTGC
 AGCAGGGTGAAGGACTAGAGCTGCGAGCTGAGGGTCTCGCAGAACTCTGTCATCCAGGACGACAGCT
 CGCTCACACAGGTGTCTACACTTGCCAATCTGGGGCATCCCCAGGGGCCCAAGCCTCAGCTTCAATGTC
 CAGGTGGCTGAGCTCCCGCCAGTGAAGCTGGTCTCTGAACTGACGCTCTGACAGTCCATGAGGGGGACG
 ATGCCACATTCCAGTGTGAGGTTTACCACCAGATGCCGAAGTCACTGGCTACGCAACGGAGCGGTTAT
 CACTGCAGGGCCACAGTTGGAATGGTCCAGAATGGTTCAAGCCGACCTTGATCATCCGAGGCTGCCAA
 CTCAAAGACGCAGGGACCGTGACCGCGCGAGCCGAGCTGCTGACACAAGTGCCAGGCTCCACGTTCCGAG
 AGACAGAGCTGCTGTTCTTGGCGGGCTGCAGGATGTGCGGGCCGAGGAAGGCCAGGATGTGCACCTGA
 GGTAGAGACAGGCCGAGTTGGTGCAGCTGGAACGTTCGCTGGATACGAGGTGGGAACCTTCCCTCTG
 GACTCTCGCTGACCAACGGCTCAGGATGGCCATGTCCACCGCTCTCTATCCATGGCGTTTCACTTACCG
 ACCAGGGCACCTACGGCTGTGAGAGCCGCCACGATCGCACCTGGCCAGGCTCAGTGTGAGGCTCGGCA
 GCTGAGGGAACCTCGGCCTCTGGAGGATGTGACCGTCCATGAGGGGGGACGTGCCACCTTCCAGTGGAG
 CTGTCCCAGGAGGTTGTGACCGGAGAGTGGGCCAGGGTGGAGTCCGGCTGCACCCAGGGCCCAAGTGCC
 ACATTCAATCAGAAGGCCGCACTCACCGCTTGGTGCTAAGCGGCTGGGTCTGGTGACTCGGGCTGTGT
 CTCCTTCACTGCGGACACCCTTCGGTGTGCTGCTCGGCTCACAGTGAGAGAGGTCCAGTGACTATTGTG
 CAGGGGCCACAGGACCTAGAAGTGAAGTGAAGGTGACACAGCCACGTTGAGTGCAGCTTTCAGACTT
 TGGCTGACGTAATATGGGAGAAGGATGGGCAGGCGCTCTCTCAGCCCACGCTCCGGCTCCAGGCTCT
 CGGCACGCGCCGCTTCTGCTTCTGCGCGTGTGCTGCTCCTCAGACGCCGGGACCTACAGCTGCGTTGTG
 GGGACAGCTCGCTCCGAGCTGCGCGCTTGACCGTACGCGAACGAGAGGTGTCTGTACTCCGTGAACCTC
 GGTCCGTTAGTCCCCGGAAGGAGACGGCGCCACGTTTGAAGTGCAGTGTGTGCGAGACCGAGATCACCGG
 GCGCTGGGAGCTCGGAGGCCGCGCTGAGACCCGAGGCGCGTCCGCATCCGACAGGAAGGGAAGAAA
 CACATTCTGGTGTGAGCGAGCTGAGAACCAGGACACCGGAGAAGTCTGCTTCCAGGCGGGACCGCCC

AGTCCTTGGCTCGGCTGGAGGTGGAGGCGTTGCCTCTCCAGATGTGCCGCCGCCACCTCGTGAGAAGAC
GGTTCTGGTCAACCGCAGGGCGGTGTTGGAGGTGACTGTGTCCCGCCCTGGGGGCCACGTGTGTTGGATG
CGGGAGGGGGTCGAACTCTGCCCGGGAACAAGTATGAGACGCGTAGACACGGCACCACCCACAGCCTAG
TCATCCATGACGTCCGACCTGAGGACCAGGGCACCTACAGCTGCCAAGCAGGCCAGGACAGTGCTGACAC
ACAGCTGCTGGTAGATGGTGACTAG

CTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACG
ATAAGGTTTAA

Restriction Sites:	Sgfl-XhoI
ACCN:	NM_178884
Insert Size:	5415 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<u>NM_178884.5, NP_849215.3</u>
RefSeq Size:	5787 bp
RefSeq ORF:	5415 bp
Locus ID:	98733
UniProt ID:	<u>D3YYU8</u>
Cytogenetics:	1 C4
Gene Summary:	Core component of the 3M complex, a complex required to regulate microtubule dynamics and genome integrity. It is unclear how the 3M complex regulates microtubules, it could act by controlling the level of a microtubule stabilizer. Acts as a regulator of the Cul7-RING(FBXW8) ubiquitin-protein ligase, playing a critical role in the ubiquitin ligase pathway that regulates Golgi morphogenesis and dendrite patterning in brain. Required to localize CUL7 to the Golgi apparatus in neurons (By similarity).[UniProtKB/Swiss-Prot Function]