

Product datasheet for **MR208436**

Obsl1 (BC051643) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Obsl1 (BC051643) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Obsl1
Synonyms:	AW822216
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR208436 representing BC051643
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCATGCCCTGGTCTTCCAGGGGTGACCCGAGAAGATGCTGGAGAGATCACCTTCAGCCTGGGCAACT
 CCCGTACCACCACCTGCTCAGAGTCAAATGTGTCAAGCACAGTCCTCCCGGGCCCCCGTAATGGTTGA
 GATGTTCAAAGGCCAAAAGAACAAGTTCTGCTGACCTGGAAGCCCCAGAGCCACCTCCAGAGACCTCC
 TTCATCTACCGCTAGAGCGGCAGGAAGTGGGGTCTGACGATTGGATCCAGTGCTTCAGCATTGAGAAGG
 CGGGAGCCGTAGAGGTGCCCGGGGACTGTGTACCCACCGAGGGTGACTATCACTTCCGCATCTGCACAGT
 CAGTGAACATGGCCGAGTCCCATGTCGTGTTCAACGGTTCTGCTCACCTTGTCACACAGCTCGCCTG
 GTGTCAGGCTGGAAGACGTGCAGGTGTATGATGGGAAGATGCCGTCTTCTCCCTTGATCTGTCCGCCA
 TCATCCAGGGCTCTTGGTTCCTTAATGGAGAGCAGCTCCAGAGTAATGAGCCAGAGGGCCAGGTGGAGCC
 TGGAGCCCTGCGGTACCGCATAGAGCAGAAGGGCCTCCAGCACAGGCTCATCCTGCAAGCTGTCAAGCAC
 CGGGACAGTGGGGCCCTGGTTGGCTTCAGCTGCCCTGGTGTGCAAGACTCTGCTGCCCTCACTATCCAAG
 AAAGCTCAGTGCACATCCTGAGTCCCCAGGACAAGGTGTCACTGACCTTCACGACCTCTGAACGGGTAGT
 GCTGACCTGTGAGCTCTCAAGGGTGGATTTTCTGCAACCTGGTACAAGGATGGGCAGAAGGTGGAGGAG
 AGCGAGTCGCTCATAGTGAAGACAGAGGGCCGCAACACCGACTGATCCTGCCTGAGGCTCAAGTCCGAG
 ACAGCGGTGAAATTGAGTGCAGAACGGAAGGGGTCTCGGCCTTCTTTGGAGTCACTGTTCAAGATCCCCC
 AGTGCACATCGTGAACCCCCAAGAGCATGTGTTTGTCATGCCATCACCTCCGAGTGTGTGAGGCTGACC
 TGTGAGGTAGACCGAGAGGACACAACCTGTACACTGGTACAAGGATGGGCAGGAGGTGGAGGAGAGTGACA
 TCATCGTATTAGAAAATGAAGGGCCCCATCACCGCCTGGTGTCTACCTGCAGCCCGCCCTCCGACGGGGG
 CGAGTTCCAGTGTGTCGAGGAGATGAACGTGCCCTACTTCACAGTTACCATCACAGATGTCTTCTCGTGG
 ATCGTCTACCCAGTAGCGAAGTGCATGTGGCAGCCGTACGCCTAGAGCGTGTGGTGTGACCTGTGAGC
 TGTGCCGACCCTGGGCTGAGGTGCGCTGGACCAAAGATGGGGAGGAGGTAGTGGAGAGCCAGCACTGCT
 CCTGGAGAAGGAAGACACCATCCGCCGCTGGTGTGCCCTCTGTCCAGCTTGGAGATTCTGGCAGTAC
 CTGTGTGAAATCCATGATGAGTCGGCTTCTTCACCATCACCGTCACAGGTGTGGGCCTATCCAGCCCC
 CAGAGTACCAGAGGACAACCTGAGCCTCAGGAATGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208436 representing BC051643
 Red=Cloning site Green=Tags(s)

MHALVLPGVTRDAGEITFSLGNSRTTLLRVKCVKHSPPPGPPVMVEMFKGQKNKVLLTWKPPEPPETS
 FIYRLERQEVGSDDWIQCFSEIKAGAVEVPGDCVPTGEGDYHFRICTVSEHGRSPHVFNNGSAHLVPTARL
 VSGLEDVQVYDGEDAVFSLDL SAI IQGSWFLNGEQLQSNEPEGQVEPGALRYRIEQKGLQHRLILQAVKH
 RDSGALVGFSCPGVQDSAAITQESSVHILSPQDKVSLTFTTSERVVLTCELSRVDFPATWYKDGQKVEE
 SESLIVKTEGRKHRLILPEAQVRDSGEIECRTEGVSAFFGVTVQDPPVHIVNPQEHVFVHAITSECVRLT
 CEVDREDTTVHWYKDGQVEEESDIIVLENEGPHHRLVLPARP SDGGEFQCVAGDERAYFTVTITDVFSW
 IVYPSSEVHVAARLERVVL TCELCRPWAEVRWTKDGEEVVE SPALLLEKEDTIRRLVLP SVQLEDSEY
 LCEIHDESASFITVTGVGLSQPPESPEDNPEPQEC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: BC051643

ORF Size: 1578 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: [BC051643.1](#)

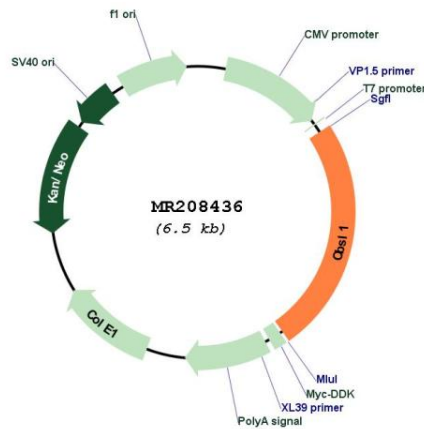
RefSeq Size: 2417 bp

RefSeq ORF: 1580 bp

Locus ID: 98733

Cytogenetics:	1 C4
MW:	88.6 kDa
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]

Product images:



Circular map for MR208436