

Product datasheet for **MG224205**

Obsl1 (NM_178884) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Obsl1 (NM_178884) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Obsl1
Synonyms:	AW822216
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG224205 representing NM_178884 Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGGCCGGAATTCTGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAAGGCCGGATCAGGGGATCAGGGGAGCCCCCGTGTTCCTACGCTTCCCGCGGCCCGTGGGGTGG
TAAGTGGAGCGGAGGCCGAGCTCAAATGCGTGGTCTGGGAGAGCCGCCCGCTGTCTGTGGGAGAA
AGGCGGGCAGCAGCTGGTGGCCTCCGAGCGCTAAGCTTCCGGAGGACGGCGCCGAGCAGGCCTGCTG
CTGAGCGGCGCGTCCCCACCGACGCGGGGTCTACGTGTGCCGCGCCCAACGCGCCGAGAGGCCCT
ACGCGGCGGCGCGTCAACGTGCTGGAACCCCGGCCCGAGCCGAGCCGAGTCTCCGAGTGTCC
GCTGCCAACACCGGGCACCGGGAGGGCGCCCCGAAGTTCCTGACGGGGCCCACTCCAGTGGGTGCTG
CGAGGGGAGGAGGTGGTGTGACGTGCCAGGTGGGAGGCCTCCGGAGCCCAAGTGTACTGGGAGAAGG
ATGGGATGGCCTTGGACGAAGTATGGGACAGCAGCCACTTCAAGCTGGAGCCCGCGCGCGAGTGA
CGAGGGCGCGAGCCTGACGTGCGCATCTGGCGGCACGGTGCCTGATCCGGGGTGTACGTGTGTAC
GCCCCAACGCGCACGGCCACGCGCAGGCGGGCGCGTGTCCAGGTGCACAGCCCCGCGAGAGCCCGC
CCCAGGATCCCGATGAGAACCCAAACCGTGTGGAGCCGCTCAAAGGCGCGCCCAAGACCTTCTGGGT
GAACGAGGGCAAGCAGCCAAATTCGCTGCTACGTGATGGGCAACCTGAGCCCGAGATCGAATGGCAC
TTGGAGGGCGCCCTCTGCTCCCGATCGCCGCCGCTCATGTACCGCGACCGCGACGGCGCTTTGTAC
TTAAGGTGCTCTACTGCCAGGCCAAGGACCGTGGGCTCTACGTGTGCGCGCGCGCAACTCGGCGGGCCA
GACCTAAGCGCGGTCCAGCTGCACGTGAAAGAACCCCGCTACGGTTACCCGCGCCCTGCAGGATGTG
GAGGGTCGGGAACACGGATTGTGGTGTGAGTGTAAAGTACCTAAGTCTCGAATTCACCGCGCTGGT
TCCGGGAGGACCAACGGCTGTACCTGCCGAAGTACGAGCAGATCGAGGAGGGCGCTGTGAGACGCT
CGTCATCCACAAGCTGAAGGCCGATGATGATGGCGTCTATCTGTGCGAGATGCGGGGCCGAGTGCCT
GTGGCCAATGTGACGGTCAAAGGACCCATCTGAAGCGTTTACCCGGAAGCTTGACGTCTGGAAGGAG
AGAACGCAGTACTGCTGGTGGAGACTCAAGAAGCTGGGGTGCAGGGGTGTGGAGCCGTGATGGGAGGA
CCTGCCAGACACCTGCCAGAGCAGTTGTGGTCATATGCATGCCCTGGTCTTCCAGGGGTGACCCGAGAA



[View online »](#)

GATGCTGGAGAGATCACCTTCAGCCTGGGCAACTCCCGTACCACCACCCTGCTCAGAGTCAAATGTGTCA
 AGCACAGTCTCCCGGGCCCCCGTAATGGTTGAGATGTTCAAAGGCCAAAAGAACAAGTTCTGCTGAC
 CTGGAAGCCCCCAGAGCCACCTCCAGAGACCTCCTTCACTACCGCTAGAGCGGCAGGAAGTGGGGTCT
 GACGATTGGATCCAGTGCTTCAGCATTGAGAAGGCGGGAGCCGTAGAGGTGCCCGGGGACTGTGTACCCA
 CCGAGGGTGACTATCACTTCCGCATCTGCACAGTCAGTGAACATGGCCGAGTCCCCATGTCGTGTTCAA
 CGGTTCTGCTCACCTTGTGCCACAGCTCGCCTGGTGTGAGGCCTGGAAGACGTGCAGGTATATGATGGG
 GAAGATGCCGTCTTCTCCCTTGATCTGTCCGCCATCATCCAGGGCTCTTGTTCCCTTAATGGAGAGCAGC
 TCCAGAGTAATGAGCCAGAGGGCCAGGTGGAGCCTGGAGCCTGCGGTACCGCATAGAGCAGAAGGGCCT
 CCAGCACAGGCTCATCCTGCAAGCTGTCAAGCACCGGGACAGTGGGGCCCTGGTTGGCTTCAGTGCCCT
 GGTGTGAAGACTCTGCTGCCCTCACTATCCAAGAAAGCTCAGTGCACATCCTGAGTCCCCAGGACAAGG
 TGTCACTGACCTTCACGACCTCTGAACGGGTAGTGCTGACCTGTGAGCTCTCAAGGGTGGATTTTCTGCTG
 AACCTGGTACAAGGATGGGCAGAAGGTGGAGGAGAGCGAGTGCCTCATAGTGAAGACAGAGGGCCGCAAA
 CACCGACTGATCTGCCTGAGGCTCAAGTCCGAGACAGCGGTGAATTTGAGTGCAGAACGGAAGGGGTCT
 CGGCTTCTTTGGAGTCACTGTTCAAGATCCCCAGTGCACATCGTGAACCCCCAAGAGCATGTGTTTGT
 CCATGCCATCACCTCCGAGTGTGTGAGGCTGACCTGTGAGGTAGACCGAGAGGACACAACGTACACTGG
 TACAAGGATGGGCAGGAGGTGGAGGAGAGTGACATCATCGTATTAGAAAATAAAGGGCCCCATCACCGCC
 TGGTGCTACCTGCAGCCCGGCCCTCCGACGGGGCGAGTTCCAGTGTGTGCGAGGAGATGAACGTGCCTA
 CTTACAGTTACCATCACAGATGTCTTCTCGTGGATCGTCTACCCAGTAGCGAAGTGCATGTGGCAGCC
 GTACGCCTAGAGCGTGTGGTGTGACCTGTGAGCTGTGCCGACCTGGGCTGAGGTGCGCTGGACCAAG
 ATGGGGAGGAGGTAGTGGAGAGCCAGCACTGCTCCTGGAGAAGGAAGACACCATCCGCCGCTGGTGTCT
 GCCCTCTGTCCAGCTTGAAGATTCTGGCGAGTACCTGTGTGAAATCCATGATGAGTCGGCTTCTTACCC
 ATCACCGTCACAGAGCCCCCTGTGCGGATCATATACCCAGGACGAGGTGACCTTACACGCCGTGAGTT
 TGAATGTGTGGTGTGCTCACCTGTGAGCTGTCTAGAGAGGATGCTCCTGTACGCTGGTACAAGGATGGGT
 AGAGGTGGAGGAGAGTGAAGCCCTGGTGTCCAGAGCGATGGGCCCTCGTCCGCTCTGAGTTGCTGTCT
 GCCCAGCCAGAGGACGGGGCGAGTTTGTGTGTATGCTGGGGATGATTACGCTTCTTCACTGTCACTG
 TCACAGCTCCACCAGAAAGGATTGTGACCCAGCGGCCGATCCCTGGATTGACGTTTGGGGCTCCAGG
 ACACGTGGAGCTACGCTGCGAAGTGGCCCCGGTGGTCTCAGGTGCGCTGGTACAAGGATGGCCTAGAG
 GTAGAGGTGTGAGTGCCTGCAGCTGGGTGTGAGGGGCTGCCGCACTCTCACCTGCCCCACGCCC
 AGCCTGAGGATGCCGGGAGTATGTATGTGAGACCCGAGATGAGGCTGTACCTTCAACGTGACCTGGC
 TGAGCTTCCGGTGCAGTTTCTGGCTCCAGAGGACGCCCAATCCGCTCTGCGTGGTTCTGGGGAGCCC
 GTGGTGTGAGCTGTGAGCTGTCCGAGCAAGCGCACAAAGTGTCTGGAGCCACAATGGGAGCCCGGTGC
 AGCAGGGTGAAGGACTAGAGCTGCGAGCTGAGGGTCTCGCAGAACTCTGTCATCCAGGACGACAGCT
 CGCTCACACAGGTGTCTACACTTGCCAATCTGGGGCATCCCCAGGGGCCCAAGCCTCAGCTTCAATGTC
 CAGGTGGCTGAGCTCCCGCCAGTGAAGCTGGTCTCTGAACTGACGCTCTGACAGTCCATGAGGGGGACG
 ATGCCACATTCCAGTGTGAGGTTTACCACACAGATGCCGAAGTCACTGGCTACGCAACGGAGCGGTTAT
 CACTGCAGGGCCACAGTTGGAATGGTCCAGAATGGTTCAAGCCGACCTTGATCATCCGAGGCTGCCAA
 CTCAAAGACGCAGGGACCGTGACCGCGCGAGCCGAGCTGCTGACACAAGTGCCAGGCTCCACGTTCCGAG
 AGACAGAGCTGCTGTTCTTGGCGGGCTGCAGGATGTGCGGGCCGAGGAAGGCCAGGATGTGCACCTTGA
 GGTAGAGACAGGCCGAGTTGGTGCAGCTGGAACGTTCGCTGGATACGAGGTGGGAACCTTCCCCTG
 GACTCTCGCTGACCAACGGCTCAGGATGGCCATGTCCACCGCTCTCTATCCATGGCGTTTACTTACCG
 ACCAGGGCACCTACGGCTGTGAGAGCCGCCACGATCGCACCTGGCCAGGCTCAGTGTGAGGCTCGGCA
 GCTGAGGGAACCTCGGCCTCTGGAGGATGTGACCGTCCATGAGGGGGGACGTGCCACCTTCCAGTGGAG
 CTGTCCCAGGAGGTTGTGACCGGAGAGTGGGCCAGGGTGGAGTCCGGCTGCACCCAGGGCCCAAGTGCC
 ACATTCAATCAGAAGGCCGCACTCACCGCTTGGTGCTAAGCGGCTGGGTCTGGTGACTCGGGCTGTGT
 CTCCTTCACTGCGGACACCCTTCGGTGTGCTGCTCGGCTCACAGTGAGAGAGGTCCCAGTACTATTGTG
 CAGGGGCCACAGGACCTAGAAGTGAAGTGAAGGTGACACAGCCACGTTGAGTGCAGCTTCCCAGACTT
 TGGCTGACGTAATATGGGAGAAGGATGGGCAGGCGCTCTCTCAGCCCACGCTCCGGCTCCAGGCTCT
 CGGCACGCGCCGCTTCTGCTTCTGCGCGTGTGCTGCTCCTCAGACGCCGGGACCTACAGCTGCGTTGTG
 GGGACAGCTCGCTCCGAGCTGCGCGCTTGACCGTACGCGAACGAGAGGTGTCTGTACTCCGTGAACCTC
 GGTCCGTTAGTCCCCGGAAGGAGACGGCGCCACGTTTGAAGTGCAGTGTGTGCGAGACCGAGATCACCGG
 GCGCTGGGAGCTCGGAGGCCGCGCTGAGACCCGAGGCGCGTCCGCATCCGACAGGAAGGGAAGAAA
 CACATTCTGGTGTGAGCGAGCTGAGAACCAGGACACCGGAGAAGTCTGCTTCCAGGCGGGACCGCCC

AGTCCTTGGCTCGGCTGGAGGTGGAGGCGTTGCCTCTCCAGATGTGCCGCCGCCACCTCGTGAGAAGAC
GTTTCTGGTCAACCGCAGGGCGGTGTTGGAGGTGACTGTGTCCCGCCCTGGGGGCCACGTGTGTTGGATG
CGGGAGGGGGTCGAACTGTCCCGGGAACAAGTATGAGACGCGTAGACACGGCACCACCACAGCCTAG
TCATCCATGACGTCCGACCTGAGGACCAGGGCACCTACAGCTGCCAAGCAGGCCAGGACAGTGCTGACAC
ACAGCTGCTGGTAGATGGTGAC

CTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG224205 representing NM_178884

Red=Cloning site Green=Tags(s)

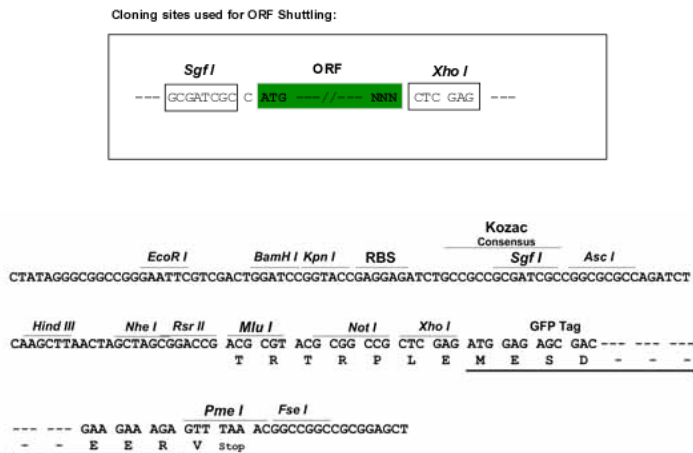
MKAGSGDQGSPPCFLRFPRPVRVVSAGAEELKCVVLGEPPTTVWEKGGQQLVASERLSFPEDGAEHGLL
LSGALPTDAGVYVCRARNAAGEAYAAAAVTLEPPAPEPEPESESCEPLTPGTGEGAPKFLTGPQSQWVL
RGEVVLTQVGGLEPKLYWEKDGMLDEVWSSHFKEPGRGASDEGASLTLRILAARLPDSGVYVCH
ARNAHGHAQAGALLQVHQPRESPQDPDENPKPVLEPLKGAPKTFWVNEGKHAKFRCYVMGKPEPEIEWH
LEGRPLLPDRRLMYRDRDGGFVLKVLVCQAKDRGLYVCAARNSAGQTL SAVQLHVKEPRLRFTPLQDV
EGREHGIVVLECKVPNSRIPTAWFREDQRLPCRKYEQIEEGAVRRLVIHKLKADDDGVYLCMRGRVRT
VANVTVKGPILKRLPRKLDVLEGENAVLLVETQEAGVQGCWSRDGEDLPDTCQSSCGHMHALVLPVGTRE
DAGEITFSLGNSRTTLLRVKCVKHSPGPPVMVEMFKGQKNKVL TWKPPEPPPETSFYRLERQEVGS
DDWIQCFSEIKAGAVEVPGDCVPTG DYHFRICTVSEHGRSPHVFNNGSAHLVPTARLVSGLEDVQVYDG
EDAVFSLDL SAI IQGSWFLNGEQLQSNEPEGQVEPGALRYRIEQKGLQHRLILQAVKHRDSGALVGFSCP
GVQDSAALTIQESSVHILSPQDKVSLTFTTSERVVL TCELSRVDFPATWYKDGQKVEESES L I V K T E G R K
HRLILPEAQVRD SGFEFCRTEGVSAFFGVTVQDPPVHIVNPQEHVFVHAITSECVRILTCEVDREDDTVHW
YKDGQVEEESDIIVLENKGPHRLVLPAAARPSDGGFQCVAGDERAYFTVTITDVFVSWIYVPSSEVHVA
VRLERVVL TCELCRPWAEVRWTKDGEVVE SPALLLEKEDTIRRLVLPVQLEDSEGYLCEIHDESASFT
ITVTEPPVRIIYPQDEVTLHAVSLECVVL TCELSREDAPVRWYKDGLEVEE SEALVLQSDGPRRLVLP
AQPEDGGFVCDAGDDSAFFTVTVTAPPERIVHPAARSLDLQFGAPGHVELRCEVAPAGSQVRWYKDGLE
VEVSDALQLGAEGPARTLTPHAQPEDAGEYVCETRDEAVTFNVSLAELPVQFLAPEAAPNPLCVVPGE
VVL SCEL SRASAQVFWSHNGSPVQGGEGLELRAEGPRRILCIQAADLAHTGVYTCQSGASPGAPSLSFNV
QVAELPPVKLVSELTPLTVHEGDDATFQCEVSPDAEVTWLRNGAVITAGPQLEMVQNGSSRTL IIRGCQ
LKDAGTVTARAGAADTSARLHVRETELLFLRRLQDVRAEEGQDVHLEVETGRVGAAGTVRWIRGGELPL
DSRLTTAQDGHVHRLSIHGVL TDQGTYGCESRHDTLRLSVRPRQLRELRLPLEDVTVHEGGSATFQLE
LSQEGVTGEWAQGGVRLHPGPKCHI QSEGRTHRLVLSGLGLADSGCVSFTADTLRCAARLTVREVPVTIV
QGPQDLEVTEGDTATFECELSQTADVIWEKDGQALSLSPRLRLQALGTRRLLLLRCCSSDAGTYS CVV
GTARSEPARLTVREREVS VLRRLRSVSAREGDGATFECTVSEITEITGRWELGGRALRPGGRVIRIQEGKK
HILVLSLRTEDTGEVCFQAGPAQSLARLEVEALPLQMCRPPPREKTVL VNRRAVLEVTVSRPGGHVCWM
REGVELCPGNKYETRRHGTTHSLVIHDVRPEDQGTYSQAGQDSADTQLLDVGD

LE - GFP Tag - V

Restriction Sites:

Sgfl-XhoI

Cloning Scheme:



ACCN:	NM_178884
ORF Size:	5412 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_178884.5, NP_849215.3

RefSeq Size: 5787 bp

RefSeq ORF: 5415 bp

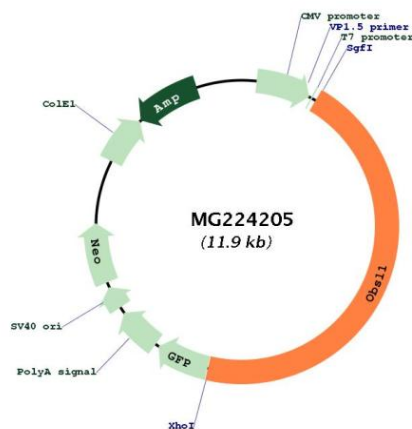
Locus ID: 98733

UniProt ID: D3YYU8

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]

Product images:



Circular map for MG224205