

Product datasheet for **MC200448**

Ophn1 (NM_052976) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ophn1 (NM_052976) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ophn1
Synonyms:	C130037N19Rik; Wtgr
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC004845 sequence for NM_052976
 AGCCCTGAAGACCCGAGGAAGACATCCAAAGGGATCCTGTGCTCTCGTTCGGTCTTGGGGTTAGGGCTCG
 GCCAGCGTGAAAAGGCTGCACCCCTGCCGGCGTCAGAAGACGTTGGTAAGCACTCCTGGTACCCCGCAGCC
 ACCACCGGACTACGCGCTCCAGCTACACACCAGCGGGCGTCCCAAGAGTTTCATTGGAACAGCCCTCC
 GCTATCCTAATCATGGGGCATCCCCGCTGGAGTTCAGCGACTGCTACCTCGACAGCCCGATTTCCGCC
 AGAGGCTCAAGTATTATGAAGAGGAGCTGGAGAGGACCAATAAATTCATCAAAGACGTGATCAAAGACGG
 CAGCGCGCTTATCAGCGCTATGAGAAATTACTCTTCTCGGGTTCAGAAATTTTCTCAGACACTCCAGTCA
 TTTCAATTTGATTTTCATTGGAGACACGCTGACCGATGATGAGATTAATATAGCGGAATCATTCAAGGAAT
 TTGCTGAATTGCTCAATGAAGTAGAAAATGAAAGGATGATGATGGTACAAAATGCTAGTGACTTGCTGAT
 CAAACCCCTGAAACTTTTCGGAAGGAACAAATAGGTTTTACAAAGGAAAGGAAGAAGAAATTTGAAAAG
 GATGGTGAGAGGTTTTACTCGCTACTGGACCGCACTTACATCTGTATCCAAAAAGAAAGAAATCTCAGC
 TACTAGAGGCAGACCTCCAAGTGGATAAGGAAAGGCACAATTTCTTTGAATCATCTCTTGACTATGTTTA
 TCAAATTCAGGAAGTCCAGGAGTCAAAGAAGTTCAATATTGTGGAGCCGGTCTTGGCCTTCTTCATAGC
 CTCTTCATTTCTAACAGTTGACTGTGGAGCTCACACAGGATTTCTGCCATACAAACAACAGCTGCAGC
 TCAGCTTACAGAATACAAGAAATCATTTCTCCAGTACCCGGGAGGAGATGGAAGAACTTAAGAAAAGGAT
 GAAAGAAGCCCTCAGACATGCAAACCTCCAGGACAGCCAACCATTGAAGGCTATCTCTACACACAGGAG
 AAATGGGCCCTGGGGATATCCTGGGCGAAATACTATTGTCGGTATGAGAAAGAGACCAGGATGCTCACAA
 TGATACCAATGGAACAGAAGCCAGGTGCTAAGCAGGGACCGGTGGACTTAACTTTGAAGTACTGCGTGAG
 AAGGAAGACAGAGTCAATTGACAAGAGATTCTGTTTTGATATAGAAACTAATGAAAGACCTGGAACCATC
 ACTCTGCAGGCGCCTCCGAAGCAATAGAAGGCTATGGATGGAAGCCATGGATGGCAAAGAACCTATCT
 ACCCACTCCTATAACAAAACAGGAAGAAATGGAGCTGAATGAAGTGGGGTTCAAATTTGTTAGGAAGTG
 CATCAATTTTATTGAGACCAAAGGGATCAAGACAGAAGGGCTGTACCGCACCGTGGGCAGCAACATCCAG
 GTTCAGAAGCTGCTCTATGCCTTTTTTGGATCCAAAATGTCCAGGGGATGTTGATTTCCATAACAGTACT
 GGGACATTAAGACAATCACAAGCTCTTTAAATTTCTACCTCAGGAATCTCTCAGAACCTGTCATGACTTA
 TAAGCTCCATAAAGAAGTCTGCTCTGCTGCCAAATCTGACAACCTGGATTACCGTCTGGGGCTATTAC
 TCCCTAGTATATAAGCTACCAGAAAAGAACCGGGAGATGCTGGAACCTTAATCAAACACTTGGTAAATG
 TGTGTGAGCACAGCAAAGAGAATCTTATGACACCTTCCAATATGGGGGTGATCTTTGGGCCACCCTGAT
 GAGAGCTCAAGAGGACTGTGGTCTGATGATGAACATCAAATCCAGAACATTGTGGTAGAAATCCTG
 ATTGAACACTTTGGCAAGATTTATTTAGGTCCACCCGAAGATAGCCAAGTACCTCCAGTGCCTCCACCTC
 GAGTGACAGCAAGAAGACACAAACCAATACAATCTCAAAGCGCTTGCTGAGAGAAAAGACTGTGTTCTA
 TACTTCTCCCTGGATGAAAATAAAGATGAAAGTCAACATCAAACCTCCTAATGGTACAATCACTAGCAAC
 CTGGATCCCCCAAGCTACTGCAGCACCTCAAACCACCCATGCAAAAAAGTGGGGAAGTACCCTGGAA
 GAAAGTCCCCAAGCAGACCTGTTTCTGACTGTCAATCGGAGCCCTGCCTAGAGACGGATGTGGGGAGGTT
 GTTATTTAGGTTGCAGGATGGAGGGACCAAGGCTACTCCAAAGGCTTCCAATGGACCTGTTCCAGGCTCT
 GGACACACAAAGACCTCCTCTTTCCATATAAAGGAGACCAGCTCCCAGGCCAATGGCTCACCACAAGGAAG
 GCGTACTGACGGTTTCAGCAAAGTCCGGCCCCCAGGAGAAAAGCAAACAATCATCCGCTCTCCGGTGAG
 GCCCCAGACCTCCTTGCCGGTCCATCACTCCACAAAAGCCAGAGCCAAAGCCAGAAACAGGGTCTGGC
 AATGCAGACGAAATCCCATCATCCGTGGTGGCATCTAGGACCAGATTCTTTGAAACAGCTTCCCGAAAA
 CTGGAAGTTCTCAAGAAAACCTTCTGGAGATGAGAGTTGAGGCCACAGGTTTGAAGGACTTGGCCTTG
 AGGGACCTTTTTTGGATGGGAAAGGGTCTACTTCAAACCTTTGTGAGCTATTGGTGCTGAAGAGCAGCT
 CTTTCTGGCCTGTAGGGTTCAGTGTCTGGGAACCTATAAAAATAAGGAACACATGTCTTAGGCAAAAAA AAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_052976

Insert Size: 2409 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:	<ol style="list-style-type: none">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.
RefSeq:	BC004845 , AAH04845
RefSeq Size:	2809 bp
RefSeq ORF:	2409 bp
Locus ID:	94190
UniProt ID:	Q99J31
Cytogenetics:	X C3
Gene Summary:	<p>Stimulates GTP hydrolysis of members of the Rho family. Its action on RHOA activity and signaling is implicated in growth and stabilization of dendritic spines, and therefore in synaptic function. Critical for the stabilization of AMPA receptors at postsynaptic sites. Critical for the regulation of synaptic vesicle endocytosis at presynaptic terminals (By similarity). Required for the localization of NR1D1 to dendrites, can suppress its repressor activity and protect it from proteasomal degradation.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a). Variants 1 and 2 both encode the same isoform (a). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>