

Product datasheet for **MC206514**

Eps8 (BC016890) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eps8 (BC016890) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Eps8
Synonyms:	AW261790
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC016890
 GACCCACGCGTCCGGAGTTCTCCATCAATGCTTCCCATTGTTATTTGCTGCTATGTTAGTCTCCCCACCT
 CGGGAAAGGGCTTACCTCCTCAGCGGTGGTATTTCCTTGTTTAAAAGAGGAGGAAGTCTTAGCTGAGG
 CCTGGGAGAGTCCAAAGGAGAGACTTTGATGAGTATAGCGGAACCCGAAACTGAAGCAGTCCCACCCTC
 TCGGTGTATGAACCAAAGGTCACCTGGACACATCCGTGAGCAGGGAGCGATGCTCTCAGTCTTGCCCTG
 ACAGTTGCTTGGACGAGTTTTACCTCAGCAGTGCAGGAAGAACAGAGGCGTGAGAGCCGGCATGAATGGT
 CATATGTCTAACCGTCCAGTGGGTATGGAGTCTACCCCTTCTCAACTGAATGGTTACGGATCTTACCAC
 CCTATTCCCAGATGGACAGAGAACACAGCTCAAGAACAAGTGCAAAGGCCCTTTATGAACAAAGGAAGAA
 CTATGCCCGAGACAGTGTGAGCAGTGTGTCGGACGTGTCCAGTACCGCGTGGAACACTTGACCACCTTC
 GTGCTGGATCGGAAAGATGCAATGATCACTGTGCGAGGACGGAATAAGAAAGCTGAAGTTGCTGGATGCCA
 AGGGCAAAGTGTGGACTCAAGATATGATTCTCCAAGTGGATGACCAGCTGTGAGCCTGATTGACTTAGA
 GTCAAAGAATGAATTGGAGAATTTCTCTAAACACAATCTCGCATTGTCAAGCAGTGGTGCATGCATGC
 AGCTATGACTCCATTCTCGCCTTGGTATGCAAAGACCAACGCAGAGCAAGCCAGACCTTACCTTTTCC
 AGTGTGATGAGGTTAAGGCAAACCTAATTAGTGAAGATATCGAAAGTGAATCAGTGACAGTAAAGGTGG
 GAAACAGAAGAGGCGGCCGGAGGCCCTGAGGATGATTGCCAAAGCAGATCCTGGCATCCCTCCTCCTCCC
 AGAGCTCCTGCCCTGTGCCACCGGGACTGTACACAGGTGGACGTTAGGAGTCCGCTAGCAGCCTGGT
 CTGCCCTGGGCAGCTGACCAGGGTGAATTCGAGAAGCCCCGGCAGTACCACGAGCAAGAAGAGACGCCGA
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 ATCACCAAACTCCAAAAGCCGCGGAAGCGTTTTCTGAGCTTTCTAAAAGGAAGAAAAGTAAAGAAAAGTA
 AAAGGAAAGGACCTGGAGAGGGCGTTTTAACACTGAGGGCAAACCGCCACCTCTGACGAGTTTGTGGA
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 GCTTCAGATCTGGTTCATTTTTTGTACTCCACTAAATATGGTGGTCCAGGCAACAGGTGGCCCTGAAC
 TGCCAGTTCCGTAAGTCCAGCCACTGTGACAAAAGACACAGTTGATTTCTTAAACTACACAGCCACTGC
 GGAGAACGGAAGCTGTGGATGTCACTGGGAGATAGTTGGGTGAAAGTGAGAGCAGAGTGGCCGAAAGAA
 CAGTTCATCCACCTTACGTCCCGAGGTTCCGCAACGGCTGGGAGCCCCGATGCTGAACCTCATGGGCG
 CGCCACAGAGCAAGACATGTATCAACTGGCCGAGTCCGTGGCCAACGCAGAACACCAGCGCAAACAGGA
 CAGCAAGAGGCTGTCCACAGAGCATTCCAATGTGTCCGACTATCCTCCAGCCGACGGATATGCGTACAGT
 AGCAGCATGTACCACAGAGGACCACATGCAGACCACGGGGAGGCTGCCATGCCTTTCAAGTCAACTCCTA
 ATCACCAGTAGATAGGAATTATGACGCAGTCAAAACACAACCCAAGAAATACGCCAAATCCAAGTACGA
 CTTTGTGGCGAGGAACAGCAGCGAGCTCTCGGTTATGAAAGATGATGTCTTAGAGATACTCGACGATCGA
 AGGCAGTGGTGGAAAGTCCGGAATGCCAGTGGAGACTCTGGGTTTGTGCCAAATAACATTCTGGATATCA
 TGAGAACTCCAGAATCTGGAGTGGGGCGGCTGACCCCCATACACACATACCATACAGAAACAAAGGAC
 GGAATACGGCCTGAGATCAGCTGACACTCCTTCTGCCCATACCCCCCTCAACGCCAGCACCCGTTCCG
 GTCCCCCTTCCACCTTCTGTACCAGCACCCGTTTCTGTGCCCAAGGTTCCAGCAGATGTACCCCGCCAGA
 ACAGCAGCTCCAGTACAGTGGGGCAGCATTGTGCGGGACAGCCAGAGATACAAACAACCTCCAGTGGGA
 CCGAAGGAAGTCCAGATGGAAGAGGTTCCAGGATGAGCTTCCAGAGGCTGACCATCGGGCGCAGTGTCT
 GCGCAGAGGAAGTCCACGTGCCACGGCAGAACGTTCCAGTGTCAATATCACTTATGACTCCTCACCGG
 AAGAAGTAAAGACTTGGCTGCAGTCAAAGGGATTCAATCCCGTACTGTCAATAGCCTCGGGGTGTTGAA
 CGGAGCACAACTCTTTTCTCAACAAAGACGAACTGAGGTCTGTCTGCCGGAAGGTGCCAGAGCTTTT
 AACCAAATCACTGTTTCAAGAAAGCTGTTTTGGAGGACAGTAAATGGAAGCTCCGAGTTACAAGAGATCATGC
 GGAGACGCGAGGAGAAGATCAGCGCCGCTGCGAGCGACTCGGGAGTGGAGTCTTTTGTGAGGGGAGCAG
 CCACTGAGTCCATGAACCTTCTTATTCTTGGTGTGGTCTGTAACAGTGTGACATGCTTTGTTTTAAG
 AAGCCTTGAAGGGAATGTCAAAGCTGTCGTCTTGGTATATGTAATTTATCGCCATATAAGGAAACAGTAT
 ATGCTGAGTAAGCAGAGGACCCGCTGCTTCTGTGCACATTAGTTTGTATTTAAACTGAGAAGCGGGTAGG
 TGAGATGGCTCAGCAAGTAAAGGTGCTTGTGCCAAGCCCAATGACCCAAGTTCGAGTCCCTGGGTCTAC
 ATGGTAGGAGAGAGCTGGCTTCTGCAAGTTGCTCTGACCACCACACATAAATAAATAACAATGTAAT
 TTACAAACTTTTTAAAAAAAAAAAAAAAAA

Restriction Sites: EcoRI-NotI
ACCN: BC016890
Insert Size: 2466 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:	BC016890 , AAH16890
RefSeq Size:	3177 bp
RefSeq ORF:	2466 bp
Locus ID:	13860
Cytogenetics:	6 66.78 cM
Gene Summary:	<p>Signaling adapter that controls various cellular protrusions by regulating actin cytoskeleton dynamics and architecture. Depending on its association with other signal transducers, can regulate different processes. Together with SOS1 and ABI1, forms a trimeric complex that participates in transduction of signals from Ras to Rac by activating the Rac-specific guanine nucleotide exchange factor (GEF) activity. Acts as a direct regulator of actin dynamics by binding actin filaments and has both barbed-end actin filament capping and actin bundling activities depending on the context. Displays barbed-end actin capping activity when associated with ABI1, thereby regulating actin-based motility process: capping activity is auto-inhibited and inhibition is relieved upon ABI1 interaction. Also shows actin bundling activity when associated with BAIAP2, enhancing BAIAP2-dependent membrane extensions and promoting filopodial protrusions. Involved in the regulation of processes such as axonal filopodia growth, stereocilia length, dendritic cell migration and cancer cell migration and invasion. Acts as a regulator of axonal filopodia formation in neurons: in the absence of neurotrophic factors, negatively regulates axonal filopodia formation via actin-capping activity. In contrast, it is phosphorylated in the presence of BDNF leading to inhibition of its actin-capping activity and stimulation of filopodia formation. Component of a complex with WHRN and MYO15A that localizes at stereocilia tips and is required for elongation of the stereocilia actin core. Indirectly involved in cell cycle progression; its degradation following ubiquitination being required during G2 phase to promote cell shape changes.</p> <p>[UniProtKB/Swiss-Prot Function]</p>