

Product datasheet for MC228313

Eps8 (NM_001271589) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eps8 (NM_001271589) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Eps8
Synonyms:	AW261790
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn



This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

GENE Eps8 (NM_001271589) Mouse Untagged Clone – MC228313		
Fully Sequenced ORF:	>MC228313 representing NM_001271589 Red=Cloning site Blue=ORF Orange=Stop codon	
	Red-cloning site bide-oki orange-stop codon	
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C	
	ATGATGGCAGCCCGGATCGACAGGGATGTGCAAATCTTAAACCATATTTTGGATGACATTGAATTTTTA	
	TCACCAAACTCCAAAAAGCCGCCGAAGCGTTTTCTGAGCTTTCTAAAAGGAAGAAAAGTAAGAAAAGTAA AAGGAAAGGA	
	TGTTTCCAGAAGTTTAAACATGGATTCAACCTTCTGGCCAAGTTGAAGTCCCATATCCAGAACCCGAGTG	
	CTTCAGATCTGGTTCATTTTTTGTTTACTCCACTAAATATGGTGGTCCAGGCAACAGGTGGCCCCGAACT	
	GGCCAGTTCGGTACTCAGCCCACTGTTGACAAAAGACACAGTTGATTTCTTAAACTACACAGCCACTGCG	
	GAGGAACGGAAGCTGTGGATGTCACTGGGAGATAGTTGGGTGAAAGTGAGAGAGA	
	AGTTCATCCCACCTTACGTCCCGAGGTTCCGCAACGGCTGGGAGCCCCCCGATGCTGAACTTCATGGGCGC	
	GCCCACAGAGCAAGACATGTATCAACTGGCCGAGTCCGTGGCCAACGCAGCACCAGCGCGAAACACCAGGGCGC	
	AGCAAGAGGCTGTCCACAGAGCATTCCAATGTGTCCGAGTCCGAGCCAACGCCAGACACCAGCGCAAACAGGAC	
	GCAGCATGTACCACAGAGGACCACATGCAGACCACGGGGGGGG	
	TCACCAAGTAGATAGGAATTATGACGCAGTCAAAACACAAACCCAAGAAATACGCCAAATCCAAGTACGAC	
	TTTGTGGCGAGGAACAGCAGCAGCGAGCTCTCGGTTATGAAAGATGATGTCTTAGAGATACTCGACGATCGAA	
	GGCAGTGGTGGAAAGTCCGGAATGCCAGTGGAGACTCTGGGTTTGTGCCAAATAACATTCTGGATATCAT	
	GAGAACTCCGGAATCTGGAGTGGGGCGCGCTGACCCCCCATACACACAC	
	GAATACGGCCTGAGATCAGCTGACACTCCTTCTGCCCCATCACCCCCTCCAACGCCAGCACCCGTTCCGG	
	TCCCCCTTCCACCTTCTGTACCAGCACCCGTTTCTGTGCCCAAGGTCCCAGCCAATGTCACCCGCCAGAA	
	CAGCAGCTCCAGTGACAGTGGGGGGCAGCATTGTGCGGGACAGCCAGAGATACAAACTACCCAGTGGAC	
	CGAAGGAAGTCCCAGATGGAAGAGGTTCAGGATGAGCTCTTCCAGAGGCTGACCATCGGGCGCAGTGCTG	
	CACAGAGGAAGTTCCACGTGCCACGGCAGAACGTTCCAGTGATCAATATCACTTATGACTCCTCACCGGA	
	AGAAGTAAAGACTTGGCTGCAGTCAAAGGGATTCAACCCCGTGACTGTCAATAGCCTCGGGGTGTTGAAC	
	GGAGCACAACTCTTTTCTCTCAACAAAGACGAACTGAGGTCTGTCT	
	ACCAAATCACTGTTCAGAAAGCTGCTTTGGAGGACAGTAATGGAAGCTCCGAGTTACAAGAGATCATGCG	
	GAGACGGCAGGAGAAGATCAGCGCCGCTGCGAGCGACTCGGGAGTGGAGTCTTTCGATGAAGGGAGCAGC CAC <mark>TGA</mark>	
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAGGTTTAA	
Restriction Sites:	Sgfl-Mlul	
ACCN:	NM_001271589	
nsert Size:	1686 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	

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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).

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

PORIGENE Eps8 (NM_001271589) Mouse Untagged Clone – MC228313

Reconstitution Method:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 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 001271589.1, NP 001258518.1</u>
RefSeq Size:	3562 bp
RefSeq ORF:	1686 bp
Locus ID:	13860
UniProt ID:	<u>Q08509</u>
Cytogenetics:	6 66.78 cM

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US

CRIGENE Eps8 (NM_001271589) Mouse Untagged Clone – MC228313

Gene Summary:

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 autoinhibited 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. [UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (5) contains a distinct 5' UTR, initiates translation at a downstream start codon and lacks an in-frame portion of the 5' coding region, compared to variant 1. The resulting isoform (3) has a shorter N-terminus, compared to isoform 1. 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.

This product is to be used for laboratory only. Not for diagnostic or therapeutic use. ©2024 OriGene Technologies, Inc., 9620 Medical Center Drive, Ste 200, Rockville, MD 20850, US