

Product datasheet for **SC117360**

EPS8 (NM_004447) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EPS8 (NM_004447) Human Untagged Clone
Tag:	Tag Free
Symbol:	EPS8
Synonyms:	DFNB102
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC117360 sequence for NM_004447 edited (data generated by NextGen Sequencing)

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ATGAATGGTCATATTTCTAATCATCCCAGTAGTTTTGGAATGTACCCATCTCAGATGAAT
GGCTACGGATCATCACCTACCTTTTCCCAGACGGACAGAGAACATGGTTCAAAAACAAGT
GCAAAGGCCCTTTATGAACAAAGGAAGAATTATGCACGGGACAGTGTGACAGTGTGTCA
GATATATCTCAATACCGTGTGAACACTTGACTACCTTTGCTCGATCGGAAAGATGCT
ATGACTACTGTTGATGATGGAATAAGGAAATTGAAATTGCTTGATGCCAAGGGCAAAGTG
TGGACTCAAGATATGATTCTTCAAGTGGATGACAGAGCTGTGAGCCTGATTGATTTAGAA
TCAAAGAATGAACTGGAGAATTTTCTTTAAACACAATCCAGCACTGCCAAGCTGTGATG
CATTATCGACGCTATGATTGAGTCTTGCAGTGGTGTGCAAAGAGCCAACCCAGAACAAG
CCAGATCTTCATCTTCCAGTGTGATGAGGTTAAGGCAAACCTAATTAGTGAAGATATT
GAAAGTGAATCAGTGACAGTAAAGGAGGGAAACAGAAGAGGGCGCCGACGCCCTGAGG
ATGATTTCCAATGCAGACCCTAGTATACCGCTCCACCCAGAGCTCCTGCCCTGCGCCC
CCTGGGACCGTCACCCAGGTGGATGTTAGAAGTCGAGTGGCAGCCTGGTCTGCATGGCA
GCCGACCAAGGGGACTTTGAGAAACCAAGGCAGTATCATGAGCAGGAAGAAACACCTGAG
ATGATGGCAGCCCGCATTGACAGAGATGTGCAAATCTTAAACCACATTTTGGATGACATT
GAATTTTTTATCACAAAACCTCAAAAAGCAGCAGAAGCATTCTTCTGAGCTTTCTAAAAGG
AAGAAAAACAAGAAAGGTAAAAGGAAAGGACCAGGAGAGGGTGTTTTAAACGCTGCGGGCA
AAACCTCCACCTCCTGATGAATTTCTTGACTGTTTCAAAAAGTTTAAACACGGATTTAAC
CTTCTGGCCAACTGAAGTCTCATATTCAGAATCCTAGTGTGACAGATTTGGTTCACCTT
TTGTTTACTCCATTAATATGGTGGTGCAGGCAACAGGAGGTCTGAACTAGCCAGTTCA
GTACTTAGTCCCCTATTGAATAAGGACACAATTGATTTCTTAAATTATACTGTCAATGGT
GATGAAACGGCAGCTGTGGATGTCATTGGGAGGAACTGGATGAAAGCCAGAGCAGATGG
CCAAAAGAACAGTTTATCCACCATATGTTCCACGATTCCGCAATGGCTGGGAGCCCCCA
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GCAAATGTAGCAGAACATCAGCGCAAACAGGAAATAAAAAGATTATCCACAGAGCATTCC
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GACTTTGTAGCAAGGAACAACAGTGAAGTCTCGGTTCTAAAGGATGATATTTAGAGATA
CTTGATGATCGGAAGCAATGGTGGAAAGTTCGAAATGCAAGTGGAGACTCTGGATTTGTG
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CCTTATACTCATACTATACAGAAACAAAGGATGGAGTATGGCCCAAGACCAGCTGATACT
CCCCCTGCTCCATCACCTCCTCCAACACCAGCTCCTGTTCTGTTCCCCTTCCCCTTCC
ACTCCAGCACCTGTTCTGTGTCAAAGGTCCCAGCAAATATAACACGTCAAAAACAGCAGC
TCCAGTGACAGTGGTGGCAGTATCGTGCGAGACAGCCAGAGACACAAACAACCTCCGGTG
GACCGAAGGAAATCTCAGATGGAGGAAGTGCAAGATGAACTATCCACAGACTGACCATT
GGTCGGAGTCCGCTCAGAAGAAATCCATGTGCCACGGCAGAACGTGCCAGTTATCAAT
ATCACTTACGACTCCACACCAGAGGATGTGAAGACGTGGTTACAGTCAAAGGGATTCAAC
CCTGTGACTGTCAATAGTCTGGAGTATTAATGGTGCACAACCTTTTCTCTCAATAAG
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AAAGCTGCATTGGAGGATAGCAGTGGCAGCTCCGAGTTACAAGAAATATGAGAAGACGA
CAGGAAAAAATCAGTGCTGCCGCTAGTGATTCCAGGAGTGGAACTTTTGTGATGAAGGAAGC
AGTCACTAA
    
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Clone variation with respect to NM_004447.5

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004447 unedited
 TTTTGTATACGACTCACTATAGGGCGGCCGCGATTTCGGCACGAGGCGAGGGCGGATCCGA
 GAACACACNAAGTAAAAGACACAATGAATGGTCATATTTCTAATCATCCCAGTAGTTTTG
 GAATGTACCCATCTCAGATGAATGGCTACGGATCATCACCTACCTTTTCCAGACGGACA
 GAGAACATGGTTCAAAAACAAGTGCAAAGGCCCTTTATGAACAAAGGAAGAATTATGCAC
 GGGACAGTGTGACAGTGTGTCAGATATATCTCAATACCGTGTGAACACTTGACTACCT
 TTGTCTGGATCGGAAAGATGCTATGATCACTGTTGATGATGGAATAAGGAAATTGAAAT
 TGCTTGATGCCAAGGGCAAAGTGTGGACTCAAGATATGATTCTTCAAGTGGATGACAGAG
 CTGTGAGCCTGATTGATTTAGAATCAAAGAATGAACTGGAGAATTTTCCTTTAAACACAA
 TCCAGCACTGCCAAGCTGTGATGCATTCATGCAGCTATGATTCAGTTCTTGCAGTGGTGT
 GCAAAGAGCCAACCCAGAACAGCCAGATCTTCATCTCTTCCAGTGTGATGAGGTTAAGG
 CAAACCTAATTAGTGAAGATATTGAAAGTGAATCAGTGACAGTAAAGGAGGGAAACAGA
 AGAGGCGGCCGACGCCCTGAGGATGATTTCCAATGCAGACCCTAGTATACCGCCTCCAC
 CCAGAGCTCCTGCCCTGCGCCCTGGGACCGTCACCCAGGTGGATGTTAGAAGTCGAG
 TGGCAGCTGGTCTGCATGGGCAGCCGACCAAGGGGACTTTGAGAAACCAGGCAGTATCA
 TGAGCAGGAAGAAACACCTGAGAGATGGCAGCCCGCATGACAGAGAGTGCAAATCTTAAC
 ACATTTGG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_004447 unedited
 GCGGCACGCAATCTAGAATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
 TTTTTTTTTTTTTTTTTTTTTTTTAAACAAACAAAAATCCTGTTTTTTGGAACTTTCC
 AGTTGCCTTTTGGAAAAGGGCCCTTTGAAAATTAAGGAATCTAATAATTTCTCTAAAG
 GATTTATGTAATAATATCCAACCTTTTTTACAAAACATGGGTTTTTTTTTTGGGAAAAAAT
 ATACCTTTTAAGGCCAAAATTGGGGTCCCAAAAAAACATTGGGGGAAGGGTAGGTTTT
 TTTCTTTTCTTTATGGGGAATCTTTCACAGGATTAATAATTTGGGGAATTAAGGGCTTTT
 TTTTCCAAAAATCCTTGCCCCAAATAAACCCATAAAAAGGGCCCCCTTCTTTTAAACC
 CCCATATAAACATTCAAACGGGGGCTTTCTTTAACAAAATCCTGGATGGCCCCCAAG
 GCAAACCTCTTCTTTGCTAAATTTGAAAAAACATGACCTTTTTCCATTGGGGCTTTC
 TCATTTTTAAAAACCCGGTTTCTTATTAGGCAAATTTAACCTAATTCAAATTCCTTTT
 TTTCCAGGGGTTGCATTCAACAACCCATGACAACGGGCTTGAAAATGCCCATAAAT
 TTATATTGGCATGCCAAGGGATGGGTGGCCTTTACAGTTCATTCAAAGTTTTTAATTTT
 TTTTTAAACGGGCGCCTTAAAACTTTAAATAAACCTAATATCCCTTCTGACTTGC
 CAAAAAGAGACTTAAGTAGCCGAGGCTTCCCCAGTGAGCTTGCCTGAAGACAAACCC
 TTTTCCGGCAAATCGAACCTGTTAATTTTGATTTGGACACATTGGGCTTTGTGAGGATAT
 CTCCCCTTAAACATTCTNTTCCCGGGATGGGAAAAAATTCGCATTG

Restriction Sites:

NotI-NotI

ACCN:

NM_004447

Insert Size:

3670 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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: A True clone.

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.

RefSeq: [NM_004447.4](#), [NP_004438.3](#)

RefSeq Size: 3912 bp

RefSeq ORF: 2469 bp

Locus ID: 2059

UniProt ID: [Q12929](#)

Cytogenetics: 12p12.3

Domains: SH3, PID

Protein Families: Druggable Genome

Gene Summary: This gene encodes a member of the EPS8 family. This protein contains one PH domain and one SH3 domain. It functions as part of the EGFR pathway, though its exact role has not been determined. Highly similar proteins in other organisms are involved in the transduction of signals from Ras to Rac and growth factor-mediated actin remodeling. Alternate transcriptional splice variants of this gene have been observed but have not been thoroughly characterized. [provided by RefSeq, Jul 2008]