

Product datasheet for **RC205300**

EPS8 (NM_004447) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EPS8 (NM_004447) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	EPS8
Synonyms:	DFNB102
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide
Sequence:

>RC205300 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAATGGTCATATTTCTAATCATCCCAGTAGTTTTGGAATGTACCCATCTCAGATGAATGGCTACGGAT
CATCACCTACCTTTCCAGACGGACAGAGAACATGGTTCAAAAACAAGTGCAAAGGCCCTTTATGAACA
AAGGAAGAATTATGCACGGGACAGTGTGACAGTGTGTCAGATATATCTCAATACCGTGTGAACACTTG
ACTACCTTTGCTCGGATCGAAAGATGCTATGATCACTGTTGATGATGGAATAAGGAAATTGAAATTGC
TTGATGCCAAGGGCAAAGTGTGGACTCAAGATGATTCTTCAAGTGGATGACAGAGCTGTGAGCCTGAT
TGATTTAGAATCAAAGAATGAACTGGAGAATTTTCCTTTAAACACAATCCAGCACTGCCAAGCTGTGATG
CATTATGCGAGCTATGATTCAGTCTTGCCTGGTGTGCAAAGAGCCAACCCAGAACAAGCCAGATCTTC
ATCTCTCCAGTGTGATGAGGTTAAGGCAAACCTAATTAGTGAAGATATTGAAAGTGAATCAGTGACAG
TAAAGGAGGGAAACAGAAGAGGGCGCCGACGCCCTGAGGATGATTTCCAATGCAGACCCTAGTATACCG
CCTCCACCAGAGCTCCTGCCCTGCGCCCTGGGACCGTCAACCCAGGTGGATGTTAGAAGTCCAGTGG
CAGCCTGGTCTGCATGGGCAGCCGACCAAGGGGACTTTGAGAAACCAAGGCAATCATGAGCAGGAAGA
AACACCTGAGATGATGGCAGCCCGATTGACAGAGATGTGAAATCTTAAACCACATTTTGGATGACATT
GAATTTTTTATCACAAAACCTCAAAAAGCAGCAGAAGCATTCTTCTGAGCTTTCTAAAAGGAAGAAAAACA
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AATCCTAGTGTGAGATTTGGTTCAGTCTTTTGTGTTTACTCCATTAATATGGTGGTGCAGGCAACAGGAG
GTCTGAACTAGCCAGTTCAGTACTTATCCCTATTGAATAAGGACACAATTGATTTCTTAAATTATAC
TGTCAATGGTGTGAAACGGCAGCTGTGGATGTCATTGGGAGGAACTTGGATGAAAGCCAGAGCAGAGTGG
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GCGCAAACAGGAAATAAAAAGATTATCCACAGAGCATTCCAGTGTATCAGAGTATCATCCAGCCGATGGC
TATGCGTTCAGTAGCAACATTTACACAAGAGGATCCCACCTGGACCAAGGGGAAGCTGCTGTTGCTTTTA
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ATCCAAGTATGACTTTGTAGCAAGGAACAACAGTGTGCTCTCGGTTCTAAAGGATGATATTTTAGAGATA
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GTTCTGTTCCTGTTCCCTTCCCTTCCACTCCAGCACCTGTTCTGTGTCAAAGTCCCAGCAAATA
TAACACGTCAAACAGCAGCTCCAGTGACAGTGGTGGCAGTATCGTGGCAGACAGCCAGAGACACAAACA
ACTTCCGGTGGACCGAAGGAAATCTCAGATGGAGGAAGTGAAGATGAATCATCCACAGACTGACCATT
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ACTCCACACCAGAGGATGTGAAGACGTGGTTACAGTCAAAGGGATTCAACCCTGTGACTGCAATAGTCT
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GCGAGAGTCTATAGCCAAATCACTGTACAAAAGCTGCATTGGAGGATAGCAGTGGCAGCTCCGAGTTAC
AAGAAATTATGAGAAGACGACAGGAAAAATCAGTGTGCGCTAGTGATTTCAGGAGTGGAACTTTTGA
TGAAGGAAGCAGTCAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC205300 protein sequence
Red=Cloning site Green=Tags(s)

MNGHISNHPSSFGMYP SQMNGYGSSPTFSQTDREHGSKTSAKALYEQRKNYARDSVSSVSDISQYRVEHL
TTFVLDKRDAMITVDDGIRKLLKLLDAKGVVWTQDMILQVDDRAVSLIDLESKNELENFPLNTIQHCQAVM
HSCSYDSVLALVCKEPTQNKPDHLHFCDEVKANLISEDIESAISDSKGGKQKRRPDALRMISNADPSIP
PPPRAPAPAPPGTVTQVDVRSRVAAWSAWAADQGDFFKPRQYHEQEETPEMMAARIDRDVQILNHILDDI
EFFITKLQKAAEAFSELSKRKKNKKGKRGPEGLTLRAKPPPDEFLLDCFQFKHGFNLLAKLKSHIQ
NPSAADLVHFLFTPLNMVVQATGGPELASSVLSPLLNKDTIDFLNYTVNGDERQLWMSLGGTWMKARAEW
PKEQFIPPYVPRFRNGWEPMLNFMGATMEQDLYQLAESVANVAEHQRKQEIKRLESTHSSVSEYHPADG
YAFSSNIYTRGSHLDQGEAAVAFKPTSNRHIDRNYEPLKTPPKYAKSKYDFVARNSELSVLKDDILEI
LDDRKQWWKVRNASGDSGFVNNILDIVRPPESGLGRADPPYTHTIQKQRMEYGRPADTPPAPSPPTP
VPVPVPLPPSTPAPVPVSKVPANITRQNSSSDSGGSIVRDSQRHKQLPVDRRKSQMEEVQDEL IHR LTI
GRSAAQKKFHVPRQNVPIVITYDSTPEDVKTWLQSKGFNPVTVNSLGVLNGAQLFSLNKDELRTVCPEG
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TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

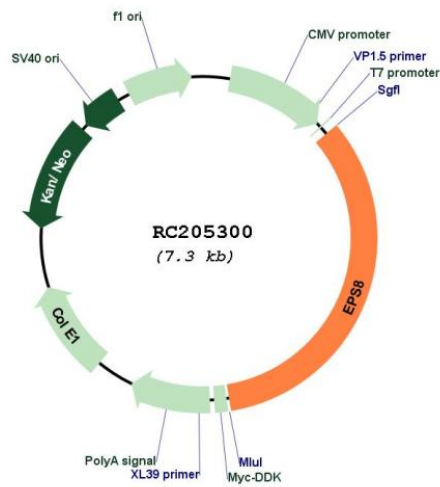
Chromatograms: https://cdn.origene.com/chromatograms/mk6201_c09.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:

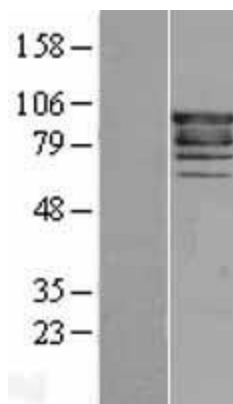


Plasmid Map:

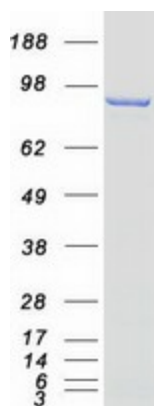


ACCN:	NM_004447
ORF Size:	2466 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid 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.</p> <p>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</p>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	NM_004447.3
RefSeq Size:	4088 bp
RefSeq ORF:	2469 bp
Locus ID:	2059
UniProt ID:	Q12929 , B4E3T6
Domains:	SH3, PID
Protein Families:	Druggable Genome
MW:	91.9 kDa
Gene Summary:	<p>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]</p>

Product images:



Western blot validation of overexpression lysate (Cat# [LY401412]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC205300 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified EPS8 protein (Cat# [TP305300]). The protein was produced from HEK293T cells transfected with EPS8 cDNA clone (Cat# RC205300) using MegaTran 2.0 (Cat# [TT210002]).