

Product datasheet for RC211230

Eph receptor A4 (EPHA4) (NM_004438) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eph receptor A4 (EPHA4) (NM_004438) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	EPHA4
Synonyms:	EK8; HEK8; SEK; TYRO1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC211230 representing NM_004438 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGGGATTTTCTATTTTCGCCCTATTTTCGTGTCTCTTCGGGATTTGCGACGCTGTACAGGTTCCA
GGGTATACCCCGGAATGAAGTTACCTTATTGGATTCCAGATCTGTTTCAGGGAGAACTTGGGTGGATAGC
AAGCCCTCTGGAAGGAGGTGGGAGGAAGTGAGTATCATGGATGAAAAAATACACCAATCCGAACCTAC
CAAGTGTGCAATGTGATGGAACCCAGCCAGAATAACTGGCTACGAACTGATTGGATCACCCGAGAAGGGG
CTCAGAGGGTGTATATTGAGATTAATTCACCTTGAGGGACTGCAATAGTCTCCGGGCGTCATGGGGAC
TTGCAAGGAGACGTTTAACTGTACTACTATGAATCAGACAACGACAAAGAGCGTTTTATCAGAGAGAAC
CAGTTTGTCAAAATTGACACCATTTGCTGCTGATGAGAGCTTCACCAAGTGGACATTGGTGACAGAAATCA
TGAAGTGAACACCGAGATCCGGGATGTAGGGCCATTAAGCAAAAAGGGTTTTACCTGGCTTTTCAGGA
TGTGGGGCCATCGCCCTGGTATCAGTCCGTGTGTCTATAAAAAGTGTCCACTCACAGTCCGCAAT
CTGGCCAGTTTCTGACACCATCACAGGGCTGATACGTCTCCCTGGTGAAGTTCGAGGCTCCTGTG
TCAACAACCTCAGAAGAGAAAGATGTGCCAAAAATGTAAGTGTGGGCAGATGGTGAATGGCTGGTACCCAT
TGGCAACTGCCTATGCAACGCTGGGCATGAGGAGCGGAGCGGAGAATGCCAAGCTTGCAAAATTGGATAT
TACAAGGCTCTCTCCACGGATGCCACCTGTGCCAAGTGCCACCCACAGCTACTCTGTCTGGGAAGGAG
CCACCTCGTGACCTGTGACCGAGGCTTTTTCAGAGCTGACAACGATGCTGCCTCTATGCCCTGCACCCG
TCCACCATCTGCTCCCCTGAAGTTGATTCAAATGTCAACGAGACATCTGTGAAGTTGGAATGGAGTAGC
CCTCAGAATACAGGTGGCCGCCAGGACATTTCTATAATGTGGTATGCAAGAAATGTGGAGCTGGTACC
CCAGCAAGTGGCACCCTGTGGAAGTGGGGTCCACTACACCCACAGCAGAATGGCTTGAAGACCACCAA
AGTCTCCATCACTGACCTCCTAGCTCATACCAATTACACCTTTGAAATCTGGGCTGTGAATGGAGTGCC
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GTTCCGACAGCTGCCAGGAACACAGATATCAAAGGCTGAACCTCTCACTTCTATGTTTTCCACGTGC



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GAGCCAGGACAGCAGCTGGCTATGGAGACTTCAGTGAGCCCTTGAGGTTACAACCAACACAGTGCCTTC
 CCGGATCATTGGAGATGGGGCTAACTCCACAGTCTTCTGGTCTCTGTCTCGGGCAGTGTGGTGTGGT
 GTAATTCTCATTGCAGCTTTTGTATCAGCCGGAGACGGAGTAAATACAGTAAAGCCAAACAAGAAGCGG
 ATGAAGAGAAACATTTGAATCAAGGTGTAAAGACATATGTGGACCCCTTACGTACGAAGATCCCAACCA
 AGCAGTGCAGAGTTTGCCAAAGAAATTGACGCATCCTGCATTAAGATTGAAAAAGTTATAGGAGTTGGT
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 CTCTGAAAAGCTGGTTATACAGACAAACAGAGGAGAGACTTCTGAGTGAGGCCAGCATCATGGGACAGTT
 TGACCATCCGAACATCATTCACTTGGAAAGCGTGGTCACTAAATGTAAACCAGTAATGATCATAACAGAG
 TACATGGAGAATGGCTCCTTGGATGCATTCCTCAGGAAAATGATGGCAGATTTACAGTCATTCAGCTGG
 TGGGCATGCTTCGTGGCATTGGGTCTGGGATGAAGTATTATCTGATATGAGCTATGTGCATCGTGATCT
 GGCCGCACGGAACATCCTGGTGAACAGCAACTGGTCTGCAAAGTGTCTGATTTTGGCATGTCCCGAGTG
 CTTGAGGATGATCCGGAAGCAGCTTACACCACCAGGGGTGCAAGATTCTATCCGGTGGACTGCGCCAG
 AAGCAATGCCTATCGTAAATTCACATCAGCAAGTGTATGGAGCTATGGAATCGTTATGTGGGAAGT
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 TATCGGTTACCCCTCCAATGGACTGCCCATTCGCTCCACCAGCTGATGCTAGACTGCTGGCAGAAGG
 AGAGGAGCGACAGGCCTAAATTTGGGCAGATTGTCAACATGTTGGACAAACTCATCCGAACCCCAACAG
 CTTGAAGAGGACAGGGACGGAGAGCTCCAGACCTAACACTGCCTTGTGGATCCAAGCTCCCTGAATTC
 TCTGCTGTGGTATCAGTGGGCGATTGGCTCCAGGCCATTAATGGACCGGTATAAGGATAAATTACAG
 CTGCTGTTATACCACACTAGAGGCTGTGGTGCACGTGAACCAGGAGGACCTGGCAAGAATTGGTATCAC
 AGCCATCACGCACCAGAATAAGATTTTGGAGAGTGTCCAGGCAATGCGAACCCAAATGCAGCAGATGCAC
 GGCAGAATGGTCCCGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC211230 representing NM_004438
 Red=Cloning site Green=Tags(s)

MAGIFYFALFSLFGICDAVTGSRVYPANEVTL LDRSRVQGELGWIASPLEGGWEEVSIIMDEKNTPIRTY
 QVCNMEPSQNNWLRDITREGAQRVYIEIKFTLRDCNSLPGVMGTCKETFNL YYYESDNKERFIREN
 QFVKIDTIAADESFTQVDIGDRIMKLNTEIRDVGPLSKKGFYLAQDVGACIALVSVRVFYKCCPLTVRN
 LAQFPDITGADTSSLVEVRGSCVNNSEEKDVPKMYCGADGEWLVPIGNCLCNAGHEERSGECQACKIGY
 YKALSTDATCAKCPPHSYSVWEGATSCTCDRGFFRADNDAASMPCTRPPSAPLNLISNVNETSVNLEWSS
 PQNTGGRQDISYNNVCKKCGAGDPSKCRPCGSGVHYTPQQNGLKTTKVSITDLLAHTNYTFEIVAVNGVS
 KYNPNPDQSVSVTVTTNQAAPSSIALVQAKEVTRYVALAWLEPDRPNGVILEYEVKYYEKDQNERYSRI
 VRTAARNTDIKGLNPLTSYVFHVRARTAAGYGDFSEPLEVTTNTVPSRIIGDGANSTVLLVSVSGSVVLV
 VILIAAFVISRRRSKYSKAKQEAEDEKHLNQGVRTYVDPFTYEDPNQAVREFAKEIDASCIEKIEKIVGVG
 EFGVCSGRLKVPKREICVAIKTLKAGYTDKQRRDFLSEASIMGQFDHPNIIHLEGVVTKCKPVMITE
 YMENGLDAFLRKNDRFTVIQLVGMLRGTGSGMKYLSMSYVHRDLAARNILVNSNLVCKVSDVFGMSRV
 LEDDPEAAYTTRGKIPIRWTAPEAIAIRKFTSASDVWSYGIWMWEVMSYGERPYWDMNQDVIAKIEEG
 YRLPPMDCPIALHQLMLDCWQKERSDRPKFGQIVNMLDKLIRNPNLSKRTGTESSRPNTALLDPSSPEF
 SAVVSVGDWLQAIKMDRYKDNFTAAGYTTLEAVVHVNQEDLARIGITAITHQNKILSSVQAMRTQMOMH
 GRMVPV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mg2867_g02.zip

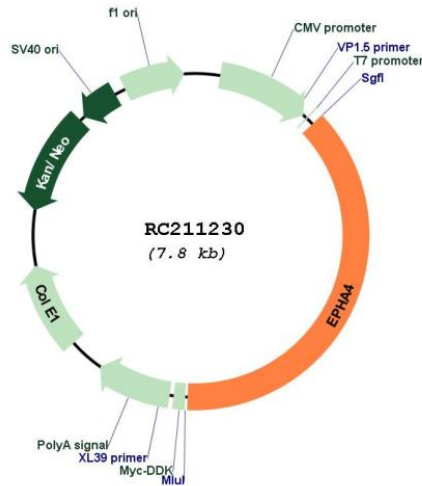
Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN: NM_004438
 ORF Size: 2958 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:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
RefSeq:	<p>NM_004438.5</p>
RefSeq Size:	<p>6364 bp</p>
RefSeq ORF:	<p>2961 bp</p>
Locus ID:	<p>2043</p>
Domains:	<p>pkinase, EPH_Ibd, TyrKc, SAM, S_TKc, FN3</p>
Protein Families:	<p>Druggable Genome, Protein Kinase, Transmembrane</p>
Protein Pathways:	<p>Axon guidance</p>
MW:	<p>109.7 kDa</p>
Gene Summary:	<p>This gene belongs to the ephrin receptor subfamily of the protein-tyrosine kinase family. EPH and EPH-related receptors have been implicated in mediating developmental events, particularly in the nervous system. Receptors in the EPH subfamily typically have a single kinase domain and an extracellular region containing a Cys-rich domain and 2 fibronectin type III repeats. The ephrin receptors are divided into 2 groups based on the similarity of their extracellular domain sequences and their affinities for binding ephrin-A and ephrin-B ligands. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2015]</p>