

Product datasheet for RC223526

Eph receptor A5 (EPHA5) (NM_182472) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eph receptor A5 (EPHA5) (NM_182472) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	EPHA5
Synonyms:	CEK7; EHK-1; EHK1; EK7; HEK7; TYRO4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC223526 representing NM_182472 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGGGGCTCGGGGCCCGGGGTGCGGGACGCCGGCGGCCCAAGCGGGCGGGCGACACCCCATCA
CCCCAGCGTCCCTGGCCGGCTGCTACTCTGCACCTCGACGGGCTCCCTCTGGACGTGCCTTCTCCTGTG
CGCCGACTCCGGACCCCTCTGGCCAGCCCGCAACGAAGTGAATTTATTGGATTACGCACTGTCATG
GGGACCTGGGATGGATTGCTTTTCAAAAAATGGGTGGGAAGAGATTGGTGAAGTGGATGAAAAATTATG
CCCTATCCACACATACCAAGTATGCAAAAGTATGGAACAGAATCAGAATAACTGGCTTTTGACCAGTTG
GATCTCCAATGAAGGTGCTTCCAGAATCTTCATAGAACTCAAATTTACCCTGCGGGACTGCAACAGCCTT
CCTGGAGGACTGGGGACCTGTAAGGAAACCTTTAATATGTATTACTTTGAGTCAGATGATCAGAATGGGA
GAAACATCAAGGAAAACCAATACATCAAATGATACCATTGCTGCCGATGAAAGCTTTACAGAACTTGA
TCTTGGTGACCGTGTATGAAACTGAATACAGAGGTACAGAGATGTAGGACCTCTAAGCAAAAAGGGATTT
TATCTTGCTTTTCAAGATGTTGGTGCTTGCAATTGCTCTGGTTTCTGTGCGTGTATACTATAAAAAATGCC
CTTCTGTGGTACGACACTTGGCTGTCTCCCTGACACCATCACTGGAGCTGATTCTTCCCAATTGCTCGA
AGTGTACGGCTCCTGTGCAACCATTCTGTGACCGATGAACCTCCAAAAATGCATGCAGCGCCGAAGGG
GAGTGGCTGGTGCCCATCGGAAATGCATGTGCAAGGCAGGATATGAAGAGAAAAATGGCACCTGTCAAG
TGTGCAGACCTGGGTTCTTCAAAGCCTCACCTCACATCCAGAGCTGCGGCAAAATGCCACCTCACAGTTA
TACCCATGAGGAAGCTTCAACCTCTTGTGTCTGTGAAAAGGATTATTTACAGGAGAGAGTCTGATCCACCC
ACAATGGCATGCACAAGACCCCTCTGCTCCTCGGAATGCCATCTCAAATGTTAATGAACTAGTGTCT
TTCTGGAATGGATTCCGCTGCTGACACTGGTGAAGGAAAGACGTGTCATATTATTGCATGCAAGAA
GTGCAACTCCCATGCAGGTGTGTGAGGAGTGTGGCGGTATGTCAGGTACCTTCCCCGCAAAGCGGC
CTGAAAAACACCTCTGTCATGATGGTGGATCTACTCGCTCACACAACTATACCTTTGAGATTGAGGCAG
TGAATGGAGTGTCCGACTTGAGCCAGGAGCCCGCAGTATGTGTCTGTAATGTAACCAAAATCAAGC
AGCTCCATCTCCAGTCACCAATGTGAAAAAGGAAAAATTGCAAAAAACGCATCTCTTTGTCTTGCCAA
GAACCAGATCGTCCCAATGGAATCATCCTAGAGTATGAAATCAAGTATTTGAAAAGGACCAAGAGACCA



[View online »](#)

GCTACACGATTATCAAATCTAAAGAGACAACCTATTACTGCAGAGGGCTTAAAACAGCTTCAGTTTATGT
 CTTCAAATTCGAGCACGTACAGCAGCAGGCTATGGTGTCTTCAGTCGAAGATTTGAGTTTAAAACACC
 CCAGTGTTCGAGCATCCAGCGATCAAAGCCAGATTCTCTGTAATTGCTGTGTCTGTGACAGTGGGAGTCA
 TTTTGTGGCAGTGGTTATCGGCGTCTCTCAGTGAAGGGCGGTGTGGCTACAGCAAAGCAAACAAGA
 TCCAGAAGAGGAAAAGATGCATTTTCATAATGGGCACATTAACCTGCCAGGAGTAAGAACTTACATTGAT
 CCACATACCTATGAGGATCCCAATCAAGCTGTCCACGAATTTGCTAAGGAGATAGAAGCATCATGTATCA
 CCATTGAGAGAGTTATTGGAGCAGTGAATTTGGTGAAGTTTGTAGTGGAGCTTTGAAACTACCAGGAAA
 AAGAGAATTACCTGTGGCTATCAAAACCCCTTAAAGTAGGCTATACTGAAAAGCAACGCAGAGATTTCTTA
 GGTGAAGCAAGTATCATGGGACAGTTTGTATCATCCTAACATCATCCATTTAGAAGGTGTGGTGACAAAA
 GTAACCAGTGATGATCGTGACAGAGTATATGGAGAATGGCTCTTTAGATACATTTTGAAGAAAAACGA
 TGGGCAGTTCAGTGTGATTACAGCTTGTGGCATGCTGAGAGGTATCTCTGCAGGAATGAAGTACCTTTCT
 GACATGGGCTATGTGCATAGAGATCTTGTGCCAGAAACATCTAATCAACAGTAACCTTGTGTGCAAAAG
 TGTCTGACTTTGGACTTTCCCGGTACTGGAAGATGATCCCGAGGCAGCCTACACCACAAGGGGAGGAAA
 AATTCCAATCAGATGGACTGCCCCAGAAGCAATAGCTTTCCGAAAGTTTACTTCTGCCAGTGTCTGG
 AGTTATGGAATAGTAATGTGGGAAGTTGTGCTTATGGAGAGAGACCCTACTGGGAGATGACCAATCAAG
 ATGTGATTAAAGCGGTAGAGGAAGGCTATCGTCTGCCAAGCCCATGGATTGTCTGCTGCTCTCTATCA
 GTTAATGCTGGATTGCTGGCAGAAAGAGCGAAATAGCAGGCCAAGTTTGTGAAATAGTCAACATGTTG
 GACAAGCTGATACGTAACCCAAGTAGTCTGAAGACGCTGGTAAATGCATCCTGCAGAGTATCTAATTTAT
 TGGCAGAACATAGCCACTAGGATCTGGGGCTACAGATCAGTAGGTGAATGGCTAGAGGCAATCAAGAT
 GGGCCGGTATACAGAGATTTTTCATGAAAATGGATACAGTTCAATGGACGCTGTGGCTCAGGTGACCTTG
 GAGGATTTGAGACGGCTTGGAGTGACTCTTGTCCGTCACCAGAAGAAGATCATGAACAGCCTTCAAGAAA
 TGAAGGTGCAGCTGGTAAACGGAATGGTGCCATTG

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAGGTTTAA

Protein Sequence:

>RC223526 representing NM_182472
 Red=Cloning site Green=Tags(s)

MRGSGPRGAGRRRPPSGGGDTPITPASLAGCYSAPRRAPLWTCLLLCAALRLLASPSNEVNLDSRTVM
 GDLGWIAFPKNGWEEIGEVDENYAPIHTYQVCKVMEQNQNNWLLTSWISNEGASRIFIELKFTLRDCNSL
 PGGLTCKETFMYYFESDDQNGRNIKENQYIKIDTIAADESFTELDLGDVRMKNLNTVDRVGPLSKKGF
 YLAFQDVGACIALVSVRYYKKCPSVVRHLAVFPDITGADSSQLLEVSGSCVNHVSVDPEPKMHCSAEG
 EWLVPIGKCMCKAGYEEKNGTCQVCRPGFFKASPHIQSCGKCPPHSYTHEEASTSCVCEKDYFRRESPPP
 TMACTRPPSAPRNAISNVNETSVFLEWIPPADTGGRKDVSYIACKKCNHAGVCEECGGHVRYLPRQSG
 LKNTSVMVDLLAHTNYTFEIEAVNGVSDLSPGARQYVSVNVTNQAAPSPVTNVKKGKIAKNSISLSWQ
 EPDRPNGIILEYEIKYFEKDQETSYYTIKSKETTITAEGLKPASVYVFQIRARTAAGYGVFSRRFEFETT
 PVFAASSDQSQIPVIAVSVTVGVILLAVVIGVLLSGRRCGYSKAKQDPEEEKMHFHNGHIKLPVVRTYID
 PHTYEDPNQAVHEFAKEIEASCITIERVIGAGEFGEVCSGRLKLPKRELPAIAIKTLKVGYTEKQRRDFL
 GEASIMGQFDHPNIIHLEGVVTKSKPVMIVTEYMENGLDFTLKKNDGQFTVIQLVGMLRGISAGMKYLS
 DMGYVHRDLAARNILINSNLVCKVSDFLSRVLEDDPEAAYTTRGGKIPIRWTAPEAIAFRKFTSASDVW
 SYGIVMWEVVSYGERPYWEMTNQDVIKAVEEGYRLPSPMDCPAALYQLMLDCWQKERNRPFDEIVNML
 DKLIRNPSSLKTLVNASCVRVSNLLAEHSPLGSGAYRSVGEWLEAIKMGRYTEIFMENGYSSMDAVAQVTL
 EDLRRLLGVTLVGHQKIMNSLQEMKVQLVNGMVPL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

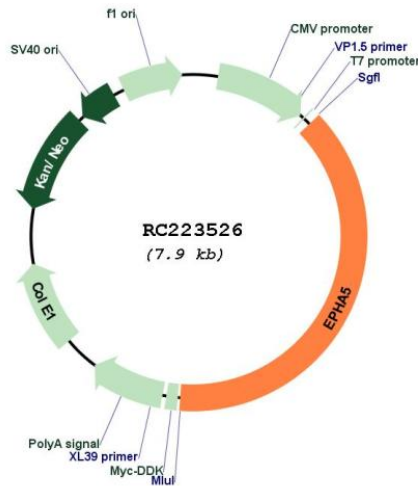
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_182472

ORF Size:

3045 bp

OTI Disclaimer:

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:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	NM_182472.5
RefSeq Size:	7792 bp
RefSeq ORF:	3048 bp
Locus ID:	2044
UniProt ID:	P54756
Cytogenetics:	4q13.1-q13.2
Protein Families:	Druggable Genome, Protein Kinase, Transmembrane
Protein Pathways:	Axon guidance
MW:	112.6 kDa
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. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Aug 2013]</p>