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Product datasheet for SC121913

Eph receptor A2 (EPHA2) (NM_004431) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eph receptor A2 (EPHA2) (NM_004431) Human Untagged Clone
Tag:	Tag Free
Symbol:	Eph receptor A2
Synonyms:	ARCC2; CTPA; CTPP1; CTRCT6; ECK
Mammalian Cell Selection:	None
Vector:	pCMV6-XL6
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

Fully Sequenced ORF:

>OriGene ORF sequence for NM_004431 edited
ATGGAGCTCCAGGCAGCCCGCGCCTGCTTCGCCCTGCTGTGGGGCTGTGCGCTGGCCGCG
GCCGCGGCGGCGCAGGGCAAGGAAGTGGTACTGCTGGACTTTGCTGCAGCTGGAGGGGAG
CTCGGCTGGCTCACACACCCGTATGGCAAAGGGTGGGACCTGATGCAGAACATCATGAAT
GACATGCCGATCTACATGTACTCCGTGTGCAACGTGATGTCTGGCGACCAGGACAACTGG
CTCCGCACCAACTGGGTGTACCGAGGAGAGGCTGAGCGTATCTTCATTGAGCTCAAGTTT
ACTGTACGTGACTGCAACAGCTTCCCTGGTGGCGCCAGCTCCTGCAAGGAGACTTTCAAC
CTCTACTATGCCGAGTCGGACCTGGACTACGGCACCAACTTCCAGAAGCGCCTGTTCACC
AAGATTGACACCATTGCGCCCGATGAGATCACCGTCAGCAGCGACTTCGAGGCACGCCAC
GTGAAGCTGAACGTGGAGGAGCGCTCCGTGGGGCCGCTCACCCGCAAAGGCTTCTACCTG
GCCTTCCAGGATATCGGTGCCTGTGTGGCGCTGCTCTCCGTCCGTGTCTACTACAAGAAG
TGCCCCGAGCTGCTGCAGGGCCTGGCCCACTTCCCTGAGACCATCGCCGGCTCTGATGCA
CCTTCCCTGGCCACTGTGGCCGGCACCTGTGTGGACCATGCCGTGGTGCCACCGGGGGGT
GAAGAGCCCCGTATGCACTGTGCAGTGGATGGCGAGTGGCTGGTGCCCATTGGGCAGTGC
CTGTGCCAGGCAGGCTACGAGAAGGTGGAGGATGCCTGCCAGGCCTGCTCGCCTGGATTT
TTTAAGTTTGAGGCATCTGAGAGCCCCTGCTTGGAGTGCCCTGAGCACACGCTGCCATCC
CCTGAGGGTGCCACCTCCTGCGAGTGTGAGGAAGGCTTCTTCCGGGCACCTCAGGACCCA
GCGTCGATGCCTTGCACACGACCCCCCTCCGCCCCACACTACCTCACAGCCGTGGGCATG
GGTGCCAAGGTGGAGCTGCGCTGGACGCCCCCTCAGGACAGCGGGGGCCGCGAGGACATT
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GCCAGTGTGCGCTACTCGGAGCCTCCTCACGGACTGACCCGCACCAGTGTGACAGTGAGC
GACCTGGAGCCCCACATGAACTACACCTTCACCGTGGAGGCCCGCAATGGCGTCTCAGGC
CTGGTAACCAGCCGCAGCTTCCGTACTGCCAGTGTCAGCATCAACCAGACAGAGCCCCCC
AAGGTGAGGCTGGAGGGCCGCAGCACCACCTCGCTTAGCGTCTCCTGGAGCATCCCCCCG
CCGCAGCAGAGCCGAGTGTGGAAGTACGAGGTCACTTACCGCAAGAAGGGAGACTCCAAC
AGCTACAATGTGCGCCGCACCGAGGGTTTCTCCGTGACCCTGGACGACCTGGCCCCAGAC
ACCACCTACCTGGTCCAGGTGCAGGCACTGACGCAGGAGGGCCAGGGGGCCGGCAGCAAG
GTGCACGAATTCCAGACGCTGTCCCCGGAGGGATCTGGCAACTTGGCGGTGATTGGCGGC
GTGGCTGTCGGTGTGGTCCTGCTTCTGGTGCTGGCAGGAGTTGGCTTCTTTATCCACCGC
AGGAGGAAGAACCAGCGTGCCCGCCAGTCCCCGGAGGACGTTTACTTCTCCAAGTCAGAA
CAACTGAAGCCCCTGAAGACATACGTGGACCCCCACACATATGAGGACCCCAACCAGGCT
GTGTTGAAGTTCACTACCGAGATCCATCCATCCTGTGTCACTCGGCAGAAGGTGATCGGA
GCAGGAGAGTTTGGGGAGGTGTACAAGGGCATGCTGAAGACATCCTCGGGGAAGAAGGAG
GTGCCGGTGGCCATCAAGACGCTGAAAGCCGGCTACACAGAGAAGCAGCGAGTGGACTTC
CTCGGCGAGGCCGGCATCATGGGCCAGTTCAGCCACCACAACATCATCCGCCTAGAGGGC
GTCATCTCCAAATACAAGCCCATGATGATCATCACTGAGTACATGGAGAATGGGGCCCTG
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GCTGCCCGCAACATCCTCGTCAACAGCAACCTGGTCTGCAAGGTGTCTGACTTTGGCCTG
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TGGAGCTTTGGCATTGTCATGTGGGAGGTGATGACCTATGGCGAGCGGCCCTACTGGGAG
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GACTGCCCCTCCGCCATCTACCAGCTCATGATGCAGTGCTGGCAGCAGGAGCGTGCCCGC
CGCCCCAAGTTCGCTGACATCGTCAGCATCCTGGACAAGCTCATTCGTGCCCCTGACTCC
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TCGGAGGGGGTGCCCTTCCGCACGGTGTCCGAGTGGCTGGAGTCCATCAAGATGCAGCAG
TATACGGAGCACTTCATGGCGGCCGGCTACACTGCCATCGAGAAGGTGGTGCAGATGACC
AACGACGACATCAAGAGGATTGGGGTGCGGCTGCCCGGCCACCAGAAGCGCATCGTCTAC
AGCCTGCTGGGACTCAAGGACCAGGTGAACACTGTGGGGATCCCCATCTGA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004431 unedited
GTTTTCACCCGCCCGTTGNCGCATAGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAA
GCAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTTCTTTTTGCAGCGGCCG
CGAATTCGGCAGAGGGGCAGGAGGGGCAGAAGTTGCGCGCAGGCCGGCGGGCGGGAGCGG
ACACCGAGGCCGGCGTGCAGGCGTGCGGGTGTGCGGGAGCCGGGCTCGGGGGGATCGGAC
CGAGAGCGAGAAGCGCGGCATGGAGCTCCAGGCAGCCCGCGCCTGCTTCGCCCTGCTGTG
GGGCTGTGCGCTGGCCGCGGCCGCGGCGGCGCAGGGCAAGGAAGTGGTACTGCTGGACTT
TGCTGCAGCTGGAGGGGAGCTCGGCTGGCTCACACACCCGTATGGCAAAGGGTGGGACCT
GATGCAGAACATCATGAATGACATGCCGATCTACATGTACTCCGTGTGCAACGTGATGTC
TGGCGACCAGGACAACTGGCTCCGCACCAACTGGGTGTACCGAGGAGAGGCTGAGCGTAT
CTTCATTGAGCTCAAGTTTACTGTACGTGACTGCAACAGCTTCCCTGGTGGCGCCAGCTC
CTGCAAGGAGACTTTCAACCTCTACTATGCCGAGTCGGACCTGGACTACGGCACCAACTT
CCAGAAGCGCCTGTTCACCAAGATTGACACCATTGCGCCCGATGAGATCACCGTCAGCAG
CGACTTCGAGGCACGCCACGTGAAGCTGAACGTGGAGGAGCGCTCCGTGGGGCCGCTCAC
CCGCAAAGGCTTNCTACCTGCCTTNNCAGGATATCGTGCCTGTGTGGCGCTGCTCTCCGT
CCGTGTCTACTACAAGAAGTGCCCCGAGCTGCTGCAGGNCCTGGCCCACTTTCCTGAGAC
ATCGNCGCTCTGATGCACCTCCCTGGCCCTGTGCCGCACCTGTGTGAC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_004431 unedited
ACACTGTGTACCGCGGCCCGCAATCTANNGATCGGTTTTTTTTTTTTTTTTTGAATATC
TGCAACTTTATTCCAAAGCAGAAATAAGTCATTTTCTAACAATAAATATAAAAAAAATAA
TAAATTAAGATTCGAAAAAAATGTCCAACAAAACAAAATCTTTAACACTGACAGAATAGA
AACTTATCCAAAAGGATGAGAGATGGGGCCGACTGGGGCATGGGCAGGACACTCCTGCAG
CACCGGTCCCTGAGTCCCCAGCTCACGAATGTTTGACACCCTCTGTCCCCAGCCCTGGCG
GGGCCCCCTGCCACACACACACATTCTCTCCACAAAGTACAAAATATATATTTAAAAACC
TCAACACAACCAAGCATCTTGCAAAGGCCCAGGAAAGCAAGGGTTTGGCCAGTCAGGGAT
GAGGATGGGGCCCGAGGGTCTAAAGAAGGCACTAGAGGGACAGGGACCGCTTTGGGTCTC
ACCCAGTCAAGTTCACAGTCTGCCCTCTTAGTGTGAGGAAATGGGGCTTGAGGTACCCTG
TTTACTTGGCGCTGGGCCAAGCCCTCCATCTCCTGAGATGGCCTCATGTGGGAGAAGGCG
GAGGGAAGGTCGGCTTGGGAATATCCTATATGTCTGTCCNGAGGCTGTGGCGGNGCTCCT
GCTCCAGGGATGCTGGGACGTGGCGGTGCCTGCTAAGTGCTCAGCTGTGTGCGTCTCGCA
GGGAAAGAGGGNCCAGCCCAGCATCCCTGGGTCATCTCTCAGTTCAGGCCAGGGTGTCAT
CCGAGACCCCTCAGCGGAAGTTGCNGGGGGAGGAAAGAACTAGNAATNAATAAAGTCCCC
AGTGGCCCAGCATGGCCCAGCAAGGAAGCCACTCTGTTTCTTCAGTATTCTGGCCGATGG
GGCTCCAGCCCCTGCGAGCTCAAATGGGATCCCAACGTGTTACCGGTCCTTG

Restriction Sites: NotI-NotI

ACCN: NM_004431

Insert Size: 4000 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
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_004431.2, NP_004422.2
RefSeq Size:	3970 bp
RefSeq ORF:	2931 bp
Locus ID:	1969
UniProt ID:	P29317
Cytogenetics:	1p36.13
Domains:	pkinase, EPH_lbd, TyrKc, SAM, S_TKc, FN3
Protein Families:	Druggable Genome, Protein Kinase, Transmembrane
Protein Pathways:	Axon guidance

Gene Summary: 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. This gene encodes a protein that binds ephrin-A ligands. Mutations in this gene are the cause of certain genetically-related cataract disorders.[provided by RefSeq, May 2010]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer 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.