

Product datasheet for **RG209191**

Eph receptor A3 (EPHA3) (NM_005233) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eph receptor A3 (EPHA3) (NM_005233) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Eph receptor A3
Synonyms:	EK4; ETK; ETK1; HEK; HEK4; TYRO4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG209191 representing NM_005233
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGATTGTCAGCTCTCCATCCTCCTTCTCAGCTGCTCTGTTCTCGACAGCTTCGGGAACTGATTC
 CGCAGCCTTCCAATGAAGTCAATCTACTGGATTCAAAAACAATCAAGGGGAGCTGGGCTGGATCTCTTA
 TCCATCACATGGGTGGGAAGAGATCAGTGGTGTGGATGAACATTACACACCCATCAGGACTTACCAGGTG
 TGCAATGTCATGGACCACAGTCAAAAACAATTGGCTGAGAACAACCTGGTCCCCAGGAACTCAGCTCAGA
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 GGAGACATTCAACCTGTACTACATGGAGTCTGATGATGATCATGGGGTGAATTTTCGAGAGCATCAGTTT
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 CGTGGTTGGGCCACAGAAGAAGATCATCAGTAGCATTAAAGCTCTAGAAAACGCAATCAAAGAATGGCCCA
 GTTCCCGTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG209191 representing NM_005233
 Red=Cloning site Green=Tags(s)

MDCQLSILLLLSCSVLDSFGELIPQPSNEVNLDSKTIQGELGWISYPSHGWEIISGVDEHYTPIRTYQV
 CNVMDHSQNNWLRNWNVPRNSAQKIYVELKFTLRDCNSIPLVLGTCKETFNLYYMESDDDHGKFRHQF
 TKIDTIAADESFTQMDLGDRIKLNLTEIREVGPVNKKGFYLAQDVGACVALVSVRVYFKCPFTVKNLA
 MFPDTPMDSQSLVEVRGSCVNNSKEEDPPRMYCSTEGEWLVPIGKCSNAGYEERGFMCAQCRPGFYKA
 LDGNMKCAKCPPHSSTQEDGSMNCRCENNYFRADKDPSPMACTRPPSSPRNVISININETSVIDWSWPLD
 TGGRKDVTFNIIICKKCGWNKIQCEPCSPNVRFLPRQFGLTNTTVTVTDLLAHTNHYTFEIDAVNGVSELSS
 PPRQFAAVSITTNQAAPSPVLTIKKDRTSRNSISLSWQEPEHPNGIILDYEVKYYEKQEQETSITILRAR
 GTNVTISSLKPDITVVFQIRARTAAGYGTNSRKFEFETSPDSFISGESSQVVMIAISA AVAILLTVVI
 YVLIGRF CGYKSKHGADEKRLHFGNGHLKLPGLRTYVDPHTYEDPTQTVHEFAKELDATNISIDKVVGAG
 EFGVCSGRLKLP SKKEISVAIKTLKVGYTEKQRRDFLGEASIMGQFDHPNIIRLEGVVTKSKPVMIVTE
 YMENGLSDFLRKHDAQFTVIQLVGMLRGIASGMKYLSDMGYVHRDLAARNILINSNLVCKVSDFGLSRV
 LEDDPEAA YTTTRGGKIPIRWTSPEAIAIYRKFTSASDVWSYGIVLWEVMSYGERPYWEMSNDVIKAVDEG
 YRLPPPMDCPAALYQLMLDCWQKDRNNRPKFEQIVSILDKLIRNPGSLKIITSAARPSNLLLDQSNVDI
 TTRFTTGDWLNQVWTAHCKEIFTGVEYSSCDTIAKISTDDMKVGVTVVGPQKKIISSIKALETQSKNGP
 VPV

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

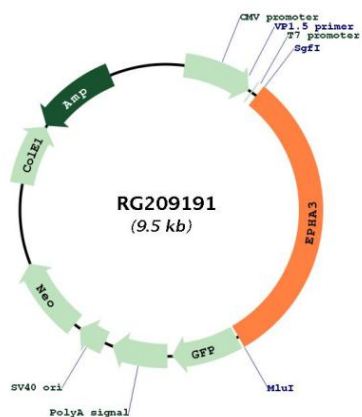


ACCN: NM_005233

ORF Size: 2949 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_005233.3 , NP_005224.2
RefSeq Size:	5826 bp
RefSeq ORF:	2952 bp
Locus ID:	2042
UniProt ID:	P29320
Cytogenetics:	3p11.1
Domains:	ptkase, EPH_Ibd, TyrKc, SAM, S_TKc, FN3
Protein Families:	Druggable Genome, Protein Kinase, Secreted Protein, 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. Two alternatively spliced transcript variants have been described for this gene. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG209191