

Product datasheet for **SC313919**

Eph receptor A3 (EPHA3) (NM_182644) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Eph receptor A3 (EPHA3) (NM_182644) Human Untagged Clone
Tag:	Tag Free
Symbol:	EPHA3
Synonyms:	EK4; ETK; ETK1; HEK; HEK4; TYRO4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC313919 representing NM_182644.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

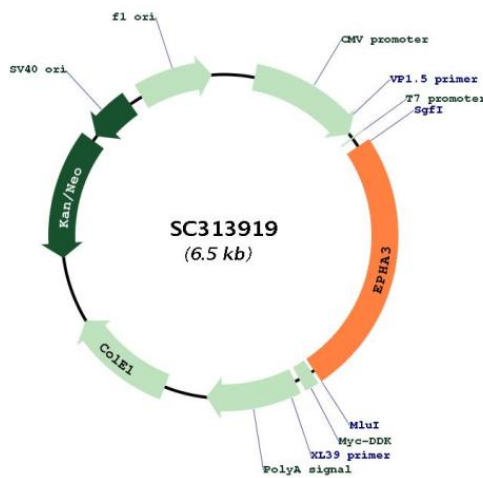
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Restriction Sites:

SgfI-MluI

Plasmid Map:



ACCN:	NM_182644
Insert Size:	1620 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_182644.2</u>
RefSeq Size:	2684 bp
RefSeq ORF:	1620 bp
Locus ID:	2042
UniProt ID:	<u>P29320</u>
Cytogenetics:	3p11.1
Protein Families:	Druggable Genome, Protein Kinase, Secreted Protein, Transmembrane
Protein Pathways:	Axon guidance
MW:	60.9 kDa

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]

Transcript Variant: This variant (2) uses an alternate splice site in the 3' coding region, compared to variant 1, that results in missing several 3' exons. It encodes isoform b which has a shorter and distinct C-terminus compared to isoform a. This isoform lacks a transmembrane domain and may be a secreted form of the Epha3 receptor.