

Product datasheet for **SC303099**

Ephrin A5 (EFNA5) (NM_001962) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ephrin A5 (EFNA5) (NM_001962) Human Untagged Clone
Tag:	Tag Free
Symbol:	Ephrin A5
Synonyms:	AF1; EFL5; EPLG7; GLC1M; LERK7; RAGS
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_001962 edited
CTCTCTCCCCGGAGTGGCGCGTCGGGGGCTCCGCCGCTGGCCAGGCGTGATGTTGCACGT
GGAGATGTTGACGCTGGTGTCTTCTGGTGCTCTGGATGTGTGTTCAGCCAGGACCCGGG
CTCCAAGCCGTCGCCGACCGCTACGCTGTCTACTGGAACAGCAGCAACCCAGATTCCA
GAGGGTGACTACCATATTGATGTCTGTATCAATGACTACCTGGATGTTTCTGCCTCA
CTATGAGGACTCCGTCCCAGAAGATAAGACTGAGCGCTATGTCCTCTACATGGTGAACCT
TGATGGCTACAGTGCCTGCGACCACACTTCCAAAGGGTTCAAGAGATGGGAATGTAACCG
GCCTCACTCTCCAAATGGACCGCTGAAGTTCTCTGAAAAATTCCAGCTCTTCACTCCCTT
TTCTCTAGGATTTGAATTCAGGCCAGGCCGAGAATATTTCTACATCTCTCTGCAATCCC
AGATAATGGAAGAAGTCTGTCTAAAGCTCAAAGTCTTTGTGAGACCAACAATAGCTG
TATGAAAATATAGGTGTTTCATGATCGTGTTCGATGTTAACGACAAAGTAGAAAATTC
ATTAGAACCAGCAGATGACACCGTACATGAGTCAGCCGAGCCATCCCGCGCGAGAACGC
GGCACAACACCAAGGATACCCAGCCGCTTTTGCAATCCTACTGTTCTCTCTGGCGAT
GCTTTTGACATTATAGCACAGTCTCCTCCCATCACTTGTCA



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_001962 unedited ACGGACGTTTCGCGATGGGCGGTAGGCGAGGTAATGGGAGGTTTATATAAGCAGAGCTC GTTTAGAGAATCGTCAGAATTTTGTAAACGACTACTATAGGGCGGCCGGAATTCGCC CTTCTCTCCCCGGAGTGGCGCGTCCGGGGCTCCGCCGTGGCCAGGCGTGATGTTGCA CGTGGAGATGTTGACGCTGGTGTCTGGTGCTCTGGATGTGTGTTCAGCCAGGACCC GGGCTCCAAGGCCGTCGCCGACCCTACGCTGTCTACTGGAACAGCAGCAACCCAGATT CCAGAGGGGTGACTACCATATGGAGGGCGGGATCAATGACTACCTGGATGTTTTCTGCC TCACTATGAGGACTCCGTCCCAGAAGATAAGACTGAGCGCTATGCCTCTACATGGTGAA CTTTGATGGCTACAGTGCCTGCGACCACACTTCCAAAGGTTCAAGAGATGGGAATGTAA CCGGCCTCACTCTCCAAATGGACCCTGAAGTTCTCTGAAAAATTCAGCTCTTCACTCC CTTTTCTCTAGGATTTGAATTCAGGCCAGGCCGAGAATATTTCTACATCTCCTCTGCAAT CCCAGATAATGGAAGAAGTCTGTCTAAAGCTCAAAGTCTTTGTGAGACCAACAATAG CTGTATGAAAATATAGGTGTTTCATGATCGTGTTCGATGTTAACGACAAAGTACAAAA TTCATTAGAACCAGCAGATGACACCGTACATGAGTCAGCCGAGCCATCCCGCGGAGAA CGCAGCACAAACACCAAGATACCCAGCCGCTTTTGGCAATCCTACTGATACCTCATGGC GATGCTTTTGACATTATAGCACAGTCTCTCCATCACTTGTACAAAGAGGACGAATTCGA TTGGGTGGCATTCCCTGTGACCCTCCAGTGCCTTCTCCCTGACCCTGGAAGTTGGCA TTC
Restriction Sites:	Please inquire
ACCN:	NM_001962
Insert Size:	800 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:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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_001962.1 , NP_001953.1
RefSeq Size:	1574 bp
RefSeq ORF:	687 bp
Locus ID:	1946
UniProt ID:	P52803
Cytogenetics:	5q21.3

Protein Families: Druggable Genome

Protein Pathways: Axon guidance

Gene Summary: Ephrin-A5, a member of the ephrin gene family, prevents axon bundling in cocultures of cortical neurons with astrocytes, a model of late stage nervous system development and differentiation. The EPH and EPH-related receptors comprise the largest subfamily of receptor protein-tyrosine kinases and have been implicated in mediating developmental events, particularly in the nervous system. EPH receptors typically have a single kinase domain and an extracellular region containing a Cys-rich domain and 2 fibronectin type III repeats. The ephrin ligands and receptors have been named by the Eph Nomenclature Committee (1997). Based on their structures and sequence relationships, ephrins are divided into the ephrin-A (EFNA) class, which are anchored to the membrane by a glycosylphosphatidylinositol linkage, and the ephrin-B (EFNB) class, which are transmembrane proteins. The Eph family of receptors are similarly divided into 2 groups based on the similarity of their extracellular domain sequences and their affinities for binding ephrin-A and ephrin-B ligands. [provided by RefSeq, Jul 2008]