

Product datasheet for **KN205725**

Eph receptor A2 (EPHA2) Human Gene Knockout Kit (CRISPR)

Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 GFP-puro donor, 1 scramble control
Donor DNA:	GFP-puro
Symbol:	Eph receptor A2
Locus ID:	1969
Components:	<p>KN205725G1, Eph receptor A2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CGCCTGCTTCGCCCTGCTGT</p> <p>KN205725G2, Eph receptor A2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CTGTGCGCTGGCCGCGCCG</p> <p>KN205725D, donor DNA containing left and right homologous arms and GFP-puro functional cassette.</p>

Homologous arm and GFP-puro sequences:

pUC vector backbone in gray; **Left arm sequence in blue**; **GFP-puro in green**; **Right arm in violet**

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 TGGGGGATCA TGTAACCTCGC CTT

GE100003, scramble sequence in pCas-Guide vector

Disclaimer:

These products are manufactured and supplied by OriGene under license from ERS. The kit is designed based on the best knowledge of CRISPR technology. The system has been functionally validated for knocking-in the cassette downstream the native promoter. The efficiency of the knock-out varies due to the nature of the biology and the complexity of the experimental process.

RefSeq:

[NM_004431](#), [NM_001329090](#)

UniProt ID:

[P29317](#)

Synonyms:

ARCC2; CTPA; CTPP1; CTRCT6; ECK

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]

Product images:

