

#### OriGene Technologies, Inc.

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# Product datasheet for KN211230

### Eph receptor A4 (EPHA4) Human Gene Knockout Kit (CRISPR)

### **Product data:**

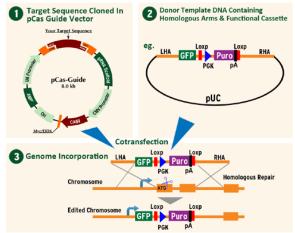
Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 GFP-puro donor, 1 scramble control
Donor DNA:	GFP-puro
Symbol:	Eph receptor A4
Locus ID:	2043
Components:	<ul> <li>KN211230G1, Eph receptor A4 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: AGGGTATACCCCGGCAATGA</li> <li>KN211230G2, Eph receptor A4 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GGGATTTGCGACGCTGTCAC</li> <li>KN211230D, donor DNA containing left and right homologous arms and GFP-puro functional casette.</li> <li>Homologous arm and GFP-puro sequences:</li> <li>pUC vector backbone in gray; Left arm sequence in blue; GFP-puro in green; Right arm in violet</li> <li>GGGAAGCGC CATAAGACA AAACAGGGCA AGGTGGCAGA GGGTGGCGGT GGCAGGCCG AGTCTGCAGC</li> <li>TCAGCCCGGG CGCCTGGAC GCAGACACGT CGACTCTCCT AAAGAAGCAA CCGCAGGCA GCTTGAACTT</li> <li>CTTITATTC AATAAAGAG GGTTTTCCTA CATTTAACC GGCCGTGGG GGGAGAAAG GTTCCCAACC</li> <li>TCTCTTGG CTCCCCTCGG TCAATTCCGA GCTTTTCCAA AGTCCTCCG CCGTCCAGGG GCTCGACCTT</li> <li>CGAGGTAACG TGGGGGATCC CGCTGGCCC CTCCGGCAGG CGGGGGCGGG GACCGGCCG GCTCGCCCC</li> <li>TAAAAAGAG CGTCTCCGG CCCCCTGG AGCCCGAGG CGGGGGCGGG GACCGGCCG GCTCGCCCC</li> <li>TAAAAGGCGGG CCCGCCCCT TGGCAATTCC TTCAGGACGC AGGTAGACC CTGGGCGCGG CCCTGCTGGG</li> <li>GGGAAAGC GGGCAGGAC CCGGGGGAACC AGGTAGAGC GGGACGGCC TTCTGTGGG</li> <li>GGGAAAGC GGGCGGG CCCCCCTG GACCCCTGG CGCCCCTGA GGGGAACC CTGGGCGGG GCTCACGTC</li> <li>ACCGGCCGGG CCCGCCCCT TGGCAATTGC TTCAGGCCGC CGCCTGTGGGG GCCCCCCC</li> <li>GGGAAAGC GGCAGGAGC AGCGTGGAA CCGGGGAACC AGGTAGAGC GGACGGCC TTCTGTGGCA</li> <li>GGGGAACGCG AGGGCCAT GGGGGTAGGG GCTCCTCAG AGCGCAGGG ATCGGCGCAGG GGCCACGCC</li> <li>CAGGCCCGG AAGGCCCAT GGGGGTAGG GGTCCTCAG AGCGCAGGG ATCGGCAAGG GGCACGCC</li> <li>CAGGCCCGG AAGGCCCGCC CGAAGGAGG GACCCGCCCCG AGGGGAAACC</li> <li>GGGGAACGCG AAGGCCCGCG CCCGCGCGCA GGCCCCCCG AGGGGAAACC</li> <li>GGGGAAGGC ACGGTGGAG GGCCCCCCG GGGCCCCCC CGGACGGGG AGCGCAAGGC</li> <li>CGGGGAACACC CGGGCGAAG GGCCCCCCCG GAGCCGCAGGG ACGGGCAAGG GGCCCCCCCC</li></ul>



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	Eph receptor A4 (EPHA4) Human Gene Knockout Kit (CRISPR) – KN211230
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:	<u>NM 001304536, NM 001304537, NM 004438, NM 001363748</u>
UniProt ID:	<u>P54764</u>
Synonyms:	HEK8; SEK; TYRO1
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. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2015]

## **Product images:**



Target gene knocked out, GFP under native gene promoter, Puro under PGK promoter

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