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:	**KN211230G1**, Eph receptor A4 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: AGGGTATACCCCGCGAATGA
	KN211230G2, Eph receptor A4 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GGGATTTGCGACGCTGTCAC
	KN211230D, donor DNA containing left and right homologous arms and GFP-puro functional cassette.

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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GGGGAAGCGC CATAAAGACA AAACAGGGCA AGGTGGCAGA GGGTGGCGGT GGCAGGCGCG AGTCTGCAGC
TCAGCCCGGG CGCGCTGGAC GCAGACACGT CGACTCTCCT AAAGAAGCAA CCGCAGGTCA GCTTAGACTT
CTTTTATTTC AATAAAAGAG CGTTTTCCTC CATCTTAAAC CGCCCGTGGT GGGAGAAAAG GTTTCCAACC
TCTTCTCTGG CTCCCCTCGG TCAATTCCGA GCTTTTCCAA AGTCCCTCCG CCGTCCAGGG GCTCGACCTT
CGAGGTAACG TGGGGGATCC CGCTGGCTCC CTCCGGCAGG CGGGGGCGGG GACCGGCCGT GCTCGCCCCC
TAGAGCCCCG GGAGACCGCG CGCCCCGTGG AGCCCGGAGG GGGCGGAACC CTGGGGCGGG CCCTGCTCGG
TGAAGGCGGG GCTCGGCCGC CCTGTCTGCG CCGCCATTGG CCGCGGGCCC CGGACTGGCG GGCTCACGTC
ACCGGCCGGG CCCGCCCCCT TGGCAATGTC TTCAGCCCGC TGCTCTCCTA ACTTAAGCAT TTATTCCACT
GGGATAGAAG CGGCAGGAGC AGCGTTGGCA CCGGCGAACC AGGTAAGAGC GGGACGGCCT TTCTGTGGTC
GGGGACAGCG AGGGGCCATC GCGGGTGAGG GGTCCTCAGG AGCGCAGGGC CAGGTGGTGC GGGGGGGAGCC
CAGTGTGAAT GGTGCGTCCC GATTCGGGAG AAGGGGGCTG AGGCGAGGGG ATCGGCGAAG GGGCAGCGGG
GAACCGCCGG ACAGCCTGCC CCGAGGCGGT GACCCGTGCA CGCGGCGGGT CTGTCCAAGT TTGTAACCAA
AGGCCAAAGT TTATCAGCAT CCGCCAGAGA GGCCCGCTCG AGGCGCCCTG AGGGGATGCA CGGGAGACAA
CGCCGGGATT TAAAAAAAAA ATTACAAGAA CCACGTCCTC TCCTGAGCCA GCCCGGGGCG AGGGGAAAAC
GCAGCCTGGA GCACAGTGAA GGCTTGGTGC TCCCGGATTC TAGCGAAAGC CTTTCGAGCT CTGGTTTCTG
CAAAGTTTCC CGAGCCCTGC GCTTCTCGGG ACCGGGCTGC GGGGCCTGCT CCGCAGCGCA GCGGTCGTGG
CGCCGCTCGT CAGGCGCCAG TGACCTGATT TCTAGCACCC GGAGTCAGAC ACCTTTCTCC TCGCCAAGCC
CAGCGCCCCG
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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_001304536, NM_001304537, NM_004438, NM_001363748

UniProt ID: P54764

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