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Product datasheet for KN202080RB

FGFR1 Human Gene Knockout Kit (CRISPR)

Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 RFP-BSD donor, 1 scramble control
Donor DNA:	RFP-BSD
Symbol:	FGFR1
Locus ID:	2260
Components:	**KN202080G1**, FGFR1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) **KN202080G2**, FGFR1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) **KN202080RBD**, donor DNA containing left and right homologous arms and RFP-BSD functional cassette. **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_000604, NM_001174063, NM_001174064, NM_001174065, NM_001174066, NM_001174067, NM_015850, NM_023105, NM_023106, NM_023107, NM_023108, NM_023109, NM_023110, NM_023111, NM_032191, NM_001354367, NM_001354368, NM_001354369, NM_001354370
UniProt ID:	P11362
Synonyms:	BFGFR; C-FGR; CD331; CEK; FLG; FLT2; H2; H3; H4; H5; KAL2; N-SAM

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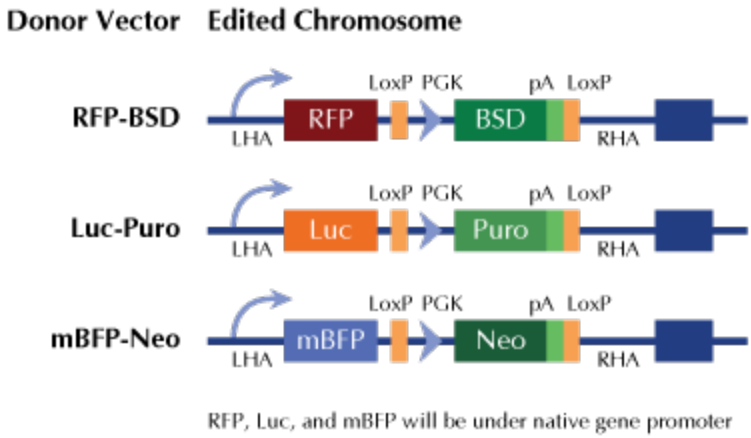
Summary: The protein encoded by this gene is a member of the fibroblast growth factor receptor (FGFR) family, where amino acid sequence is highly conserved between members and throughout evolution. FGFR family members differ from one another in their ligand affinities and tissue distribution. A full-length representative protein consists of an extracellular region, composed of three immunoglobulin-like domains, a single hydrophobic membrane-spanning segment and a cytoplasmic tyrosine kinase domain. The extracellular portion of the protein interacts with fibroblast growth factors, setting in motion a cascade of downstream signals, ultimately influencing mitogenesis and differentiation. This particular family member binds both acidic and basic fibroblast growth factors and is involved in limb induction. Mutations in this gene have been associated with Pfeiffer syndrome, Jackson-Weiss syndrome, Antley-Bixler syndrome, osteoglophonic dysplasia, and autosomal dominant Kallmann syndrome 2. Chromosomal aberrations involving this gene are associated with stem cell myeloproliferative disorder and stem cell leukemia lymphoma syndrome. Alternatively spliced variants which encode different protein isoforms have been described; however, not all variants have been fully characterized. [provided by RefSeq, Jul 2008]

Product images:



RFP, Luc, and mBFP will be under native gene promoter