

Product datasheet for **KN207794**

CXCR2 Human Gene Knockout Kit (CRISPR)

Product data:

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| Product Type: | Knockout Kits (CRISPR) |
| Format: | 2 gRNA vectors, 1 GFP-puro donor, 1 scramble control |
| Donor DNA: | GFP-puro |
| Symbol: | CXCR2 |
| Locus ID: | 3579 |
| Components: | <p>KN207794G1, CXCR2 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GGGGCGGCATCTAGTAGAAA</p> <p>KN207794G2, CXCR2 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GTGACAGCTTTGAAGATTC</p> <p>KN207794D, donor DNA containing left and right homologous arms and GFP-puro functional cassette.</p> <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</p> <pre> ATAGCCCATT TGGAGTTCCT GCTTAATCCC CTGATTA AAA ACTGAATGGG GCTGAGTGCA GTGGCTCATG CCTATATTCC CAGCACTTTG GGAGACAGAG GCAGGAGAAT TACTTAAGGT CAGGAGTTTA AGACCATCCT GAGCAACATA ACAAGTCCCC ATCTCTAAGA CAAAAAAAAA AGAACTGAGT GACATCTCAC ATCTCACATT TCTGAACATT AAACCCAGCC TTGATAGCCA AAGATGCTCG CCACTGAAGG ATCCAGGTAG TATTGAGGGT TCTGTGGGGA TTATCCAAG AGAACTTTCT ACAAAGTTTT AGGTGATGGC GATGCTAAAA GAAATGCTAA GAATTTCTCT CTTATATTAA AGAGA ACTAT GGCCTCTCA TAAAATGTAC CATTATCAC CAAATTTATC TCATAACCTA AGAGCTACCA CTTACAAATT TGAAGGGAAA AATTACTACA TTGTAATACT CAAGCCAACA CAAAGAATCC TATCCCAGTT TCTTGAGTGG ATGGGCAAGA ATATGGGGAA TTTATTATGC AGTAACCTTC ATCTCTCTTC TATAGGTCAG GATTTAAGTT TACCTCAAAA ATGTGAACCA GAATCCCTGG AAATCAACAA GTATTTTGTG GTCATTATCT ATGCCCTGGT ATTCTGCTG AGCCTGCTGG GAAACTCCCT CGTGATGCTG GTCATCTTAT ACAGCAGGGT CGGCCGCTCC GTCACTGATG TCTACCTGCT GAACCTAGCC TTGGCCGACC TACTCTTTGC CCTGACCTTG CCCATCTGGG CCGCCTCAA GGTGAATGGC TGGATTTTTG GCACATTCCT GTGCAAGGTG GTCTCACTCC TGAAGGAAGT CAACTTCTAT AGTGGCATCC TGCTACTGGC CTGCATCAGT GTGGACCGTT ACCTGGCCAT TGTCCATGCC ACACGCACAC TGACCCAGAA GCGCTACTTG GTCAAATTCA TATGTCTCAG CATCTGGGGT CTGTCCTTGC TCCTGGCCCT GCCTGTCTTA CTTTTCCGAA GGACCGTCTA CTCATCCAAT GTTAGCCAG CCTGCTATGA GGACATGGG AACAATACAG CAAACTGGCG GATGCTGTTA CGGATCCTGC CCCAGTCCTT TGGCTTCATC GTGCCACTGC TGATCATGCT GTTCTGCTAC GGATTCACCC TGCGTACGCT </pre> <p>GE100003, scramble sequence in pCas-Guide vector</p> |



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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_001168298](#), [NM_001557](#)

UniProt ID: [P25025](#)

Synonyms: CD182; CDw128b; CMKAR2; IL8R2; IL8RA; IL8RB

Summary: The protein encoded by this gene is a member of the G-protein-coupled receptor family. This protein is a receptor for interleukin 8 (IL8). It binds to IL8 with high affinity, and transduces the signal through a G-protein activated second messenger system. This receptor also binds to chemokine (C-X-C motif) ligand 1 (CXCL1/MGSA), a protein with melanoma growth stimulating activity, and has been shown to be a major component required for serum-dependent melanoma cell growth. This receptor mediates neutrophil migration to sites of inflammation. The angiogenic effects of IL8 in intestinal microvascular endothelial cells are found to be mediated by this receptor. Knockout studies in mice suggested that this receptor controls the positioning of oligodendrocyte precursors in developing spinal cord by arresting their migration. This gene, IL8RA, a gene encoding another high affinity IL8 receptor, as well as IL8RBP, a pseudogene of IL8RB, form a gene cluster in a region mapped to chromosome 2q33-q36. Alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Nov 2009]

Product images:

