

Product datasheet for **KN220240**

FAT4 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:	FAT4
Locus ID:	79633
Components:	<p>KN220240G1, FAT4 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GATACTGATAGAGTGTGCAA</p> <p>KN220240G2, FAT4 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: ACAGTAGCCAAAACACTCGA</p> <p>KN220240D, 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

```
TGGAGGGGCG TTGCAGCCTG GTTTTTGAGG AGTGGGGACT CCAGGAATTC CATCGCCTCC AGCTTTTGGG
AAAGAAATTC GATTCTCCCG GTTCCCACC ACCCTTCCC CGGTGCGCAG TTGTGCTTGG ACGTTTGTTC
CTCCCTCTTC ACGTTCTTCG CTGCGGGTAA GTTCTAAAGT TTCTGAAGAC CGTCTTTTGC AATGATTCTC
CATATACCTT AGATACAGGC AACTTCTCCC AACTCTCATC CACCCGGGTG AAAACGCTCA GACTATCTGG
ATTCAAAAAC AAAGTAAAAG GGGGCATATA TAAGAGGCTT GAGAACTTT TCTGGGAATC CAGCTCACAG
GAGTGTCCCG CGGAATGCCG TGCCGCTTTT CGCCACAGCA TCTCTCTTGC ACTCCGCGTT CAACTGGCTA
CCTAGAGTCT TTTGCTGATG CTAATTGCTT TTGCCGGACT GGAGGTTCTT TGAAATAGCA GAGGTCTCAG
ACCAAGCCGT CAGCTGAATC TTTGCTGGCG CTCCTTAATC CCTGTAAATA TCATTGCGTT TGCTTCACCC
CTTCCTTCTC TTTATCACAT CGTTTTAGGG AGCCAGGACC AGGCCTGGGT CCACGGGGCC GAGCCGCGCC
AGGTGTTCCA AGTGCTGGAA GAGCAACCTC CAGGCACTCT GGTAGGCACC ATCCAGACGC GCCCCGGCTT
CACCTACAGG CTCAGCGAAA GCCACGCCCT GTTTGCCATA AACAGTAGCA CCGGAGCCCT GTACACCACC
TCCACCATCG ACCGCGAGAG CCTGCCCAGC GACGTGATCA ACCTGGTGGT CCTTTCCAGC GCGCCACCT
ACCCACCGA AGTGCGAGTG CTGGTGCGGG ACCTCAATGA CAACGCCCCC GTTTTCCGGG ACCCCTCTAT
CGTGGTCACT TTCAAGGAAG ACAGTAGCAG CGGACGCCAA GTCATCTTAG ACACCGCCAC CGACTCGGAC
ATCGGCTCAA ACGGTGTGGA CCACCGCTCC TACCGCATCA TCCGCGCAA TGAGGCGGGG CGCTTCCGTC
TGGACATCAC CCTGAACCCG AGCGGCGAGG GAGCGTTCCT GCATCTGGTG TCCAAGGGCG GACTGGACCG
TGAGGTCACT CCGCAGTACC AGCTCCTGGT TGAGGTGGAG GACAAGGGTG AGCCTAAGCG GCGGGGCTAC
CTTCAGGTAA
```

GE100003, scramble sequence in pCas-Guide vector



[View online »](#)

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_001291285](#), [NM_001291303](#), [NM_024582](#)

UniProt ID: [Q6V0I7](#)

Synonyms: CDHF14; CDHR11; FAT-J; FATJ; HKLLS2; NBLA00548; VMLDS2

Summary: The protein encoded by this gene is a member of the protocadherin family. This gene may play a role in regulating planar cell polarity (PCP). Studies in mice suggest that loss of PCP signaling may cause cystic kidney disease, and mutations in this gene have been associated with Van Maldergem Syndrome 2. Alternatively spliced transcript variants have been noted for this gene. [provided by RefSeq, Mar 2014]

Product images:

