

Product datasheet for **KN208604**

HIF 2 alpha (EPAS1) 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:	HIF 2 alpha
Locus ID:	2034
Components:	<p>KN208604G1, HIF 2 alpha gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CCTCGGACCGGCCCCCTGAT</p> <p>KN208604G2, HIF 2 alpha gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: AGCGGGCGTCCGGGCCGATC</p> <p>KN208604D, 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

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GCCGGTGCCC GCCCCCGCC CTCCGCGCCC GCCCGTGCC CGCCCCAAGC CGGCCGACGG AGTTTTTAAA
GTGGGCTGCC GGCCGCGGGA GCTTTACTACT CGCGAGCGGA CCGCCACACG GGTCCGGTGC CCGCTGCGCT
TCCGCCCCAG CGCTCCTGAG GCGGCCGTAC AATCCTCGGC AGTGTCTGA GACTGTATGG TCAGCTCAGC
CCGGCCTCCG ACTCCTCCG ACTCCCAGCA TTCGAGCCAC TTTTTTTTTT CTTTGAAAAC TCAGAAAAGT
GACTCCTTTT CCAGGGAAAA AGGAAC TTGTTTCTCT CTCCGTCCTC TTTTCGGGTC TGACAGCCTC
CACCCACTCC TTCCCGGAC CCGCCTCCG CGCGCAGGTT CCTCCAGTC ACCTTCTCC ACCCCCGCCC
CCGCACCTAG CCCGCGCGC GCCACCTTCC ACCTGACTGC GCGGGGCGCT CGGGACCTGC GCGCACCTCG
GACCTTACC ACCCGCCCGG GCCGCGGGA GCGGACGAGG GCCACAGCCC CCCACCCGCC AGGGAGCCCA
GGTGCTCGGC GTCTGAACGT CTCAAAGGGC CACAGCGACA AGGCGCGACC GAGAGTGGTT GGGAGAAGAG
TGCTGAGAGG TCTTCGGAGC TCGAGGCTCG GTTTGGAGGG CTGTGAGGGG GAGAGCATGT GCCCGTTTG
GGGGCGCGGA TCAGCAGCTT TGCAGTGGAG ACTTCTGCGG CTCGGAGGAG TCGGGGATTT GCGCGCACGG
CGAGGCCAGG AGGCCGAGG AGATGGCCTG GAGGTCGGAG GTGCTTCCGC GGTGCCTTTG AAAATCTCCC
AGCCGCCCG CAGCAGATTA CCGTGGCCAC CGGCGCTTGG AAATGTTTGT GGTGCATGT CCTCGACTTT
CTCTGGTCTC TCATTTTGGG GCAGCATCCA CGTCTCTATT TTTCTCTGGA TTCGCGGAGT CCTTCAAAT
GCGCTCCTGT GCCCGCGCCG CGGCCAAGT GGGCAAAGG GGGCGGGAGG CGGAGAGCGG CTCAGGGACA
CGATCCTACC GAGGAGCCAG GACCCTTCCG AGCGCCCCG TGCCGGGCTC CAGACCCAC CGAAGGTTGG
AGAACCCTC TCCTCGTGCC GCACCTTGAC TCTGGGGAGA GTAGGTAGTG AGTGACCTGG ATTGCCTCGC
GGGGCAGAT
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GE100003, scramble sequence in pCas-Guide vector



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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_001430](#)

UniProt ID: [Q99814](#)

Synonyms: bHLHe73; ECTY4; HIF2A; HLF; MOP2; PASD2

Summary: This gene encodes a transcription factor involved in the induction of genes regulated by oxygen, which is induced as oxygen levels fall. The encoded protein contains a basic-helix-loop-helix domain protein dimerization domain as well as a domain found in proteins in signal transduction pathways which respond to oxygen levels. Mutations in this gene are associated with erythrocytosis familial type 4. [provided by RefSeq, Nov 2009]

Product images:

