

Product datasheet for **KN204008**

TNFRSF1A 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:	TNFRSF1A
Locus ID:	7132
Components:	<p>KN204008G1, TNFRSF1A gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CAGCAGCAGGTCAGGCACGG</p> <p>KN204008G2, TNFRSF1A gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: TTTGTCCCTGGTCTCACCAG</p> <p>KN204008D, 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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GTGTCTGAGA AGTTCATTTA TGTGTCCAAG ACACATTCTT AGCTAAAAAG CTAAGCATTC TGAATTGGAA
CCCAGAGAAT TTGACTCCCA GACTCTGGAT CTTTTACTG CTGTGATCCA TCTGGGAAAG GCTAGTGATG
TGGGCAAGGG GCTTATTGCC CCTTGGTGT TGGTTGGGAG TGGTCGGATT GGTGGGTTGG GGGCACAAGG
CAGCCAGATC TGGGACTCCT GTGCTTGTGA CTGGACTACA AAGAGTTAAA GAACGTTGGG CCTCCTCCTC
CCGCCTCCTG TGGCCTCCTC CTCCAGCTCT TCCTGTCCCG CTGTTGCAAC ACTGCCTCAC TCTTCCCTC
CCACCTTCTC TCCCTCCTC TCTGCTTTAA TTTTCTCAGA ATTCTCTGGA CTGAGGCTCC AGTTCCTGGCC
TTTGGGGTTC AAGATCACTG GGACCAGGCC GTGATCTCTA TGCCCGAGTC TCAACCTCA ACTGTCACCC
CAAGGCACTT GGGACGTCCT GGACAGACCG AGTCCCGGGA AGCCCCAGCA CTGCCGCTGC CACTGCCCC
TGAGCCCAA TGGGGGAGTG AGAGGCCATA GCTGTCTGGC TGGGCGAGGC ACCTTCCGGC TGGCGTGGGC
CCTCTCCGGG AGGGGGCCGA GCCTCTCCTG CCCGGGCTG GTCCTGGCGC CAGCCTCAGG CCTGCAGGTC
CTAACCTCAG CCACTGCCAG TGTGGGGTTC CCCATTCATC CGCCTTTTGG AGTAGGGGCT GCGCTGAGGC
AGGGGAATGG GAGAAGTTG AAAGGGAGAG AGTAAAAGGA AGCCCTGGCC CCTGACAGCG GTGGAAGTTT
GTGGGCGGCC AAGGGAATGT GGGCAGGAGA TAGGCCAGG GTGGGGCAGA TTTGGCGGGG AAAAGAAGGG
AGTGGGAGTA GGAAGATTAG TGCTCGGGGA GTCCAGACGG TTCTGAATTC TGTCCCTCCG GTCAGCTGGC
TGGCCTGGAG GGTGTTGGGC CGTGGGGAGG CGAGGCTGCC TGTGGAATT GGTGGAGCAC ACCCTGTAGG
GCAGGATTTT GGCGCTGGT GAAGTGGGG AGTGAGTTGA GGAGTGGGGA TGGGCTGGT TGGTGGGTTT
GGGATGCTCA TGGTGGGAGG TATTTAGAA TGGGCTGGGA CACTGGATGG GGCAGGGCAA CCCAGTGGAC
AGTGTCCCA

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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_001065](#), [NM_001346091](#), [NM_001346092](#), [NR_144351](#)

UniProt ID: [P19438](#)

Synonyms: CD120a; FPF; MS5; p55; p55-R; p60; TBP1; TNF-R; TNF-R-I; TNF-R55; TNFAR; TNFR1; TNFR1-d2; TNFR55

Summary: This gene encodes a member of the TNF receptor superfamily of proteins. The encoded receptor is found in membrane-bound and soluble forms that interact with membrane-bound and soluble forms, respectively, of its ligand, tumor necrosis factor alpha. Binding of membrane-bound tumor necrosis factor alpha to the membrane-bound receptor induces receptor trimerization and activation, which plays a role in cell survival, apoptosis, and inflammation. Proteolytic processing of the encoded receptor results in release of the soluble form of the receptor, which can interact with free tumor necrosis factor alpha to inhibit inflammation. Mutations in this gene underlie tumor necrosis factor receptor-associated periodic syndrome (TRAPS), characterized by fever, abdominal pain and other features. Mutations in this gene may also be associated with multiple sclerosis in human patients. [provided by RefSeq, Sep 2016]

Product images:

