

Product datasheet for **KN202253**

MYD88 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:	MYD88
Locus ID:	4615
Components:	<p>KN202253G1, MYD88 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CTGCTCTCAACATGCGAGTG</p> <p>KN202253G2, MYD88 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CCTGGAGCCTCAGCGCGGTC</p> <p>KN202253D, 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**

```

AAGGCGAGTT ACATGATCCC CCATGTTGTG CAAAAAAGCG GTTAGCTCCT TCGGTCCTCC GATCGTTGTC
AGAAGTAAGT TGGCCGAGT GTTATCACTC ATGGTTATGG CAGCACTGCA TAATTCTCTT ACTGTCATGC
CATCCGTAAG ATGCTTTTCT GTGACTGGTG AGTACTCAAC CAAGTCATTC TGAGAATAGT GTATGCCGGC
ACCGAGTTGC TCTTGCCCGG CGTCAATACG GGATAATACC GCGCCACATA GCAGAATTTT AAAAGTGCTC
ATCATTGGAA AACGTTCTTC GGGGCGAAAA CTCTCAAGGA TCTTACCCTG GTTGAGATCC AGTTTCGATGT
AACCCACTCG TGCACCCAAC TGATCTTCAG CATCTTTTAC TTTACCAGC GTTTCTGGGT GAGCAAAAAC
AGGAAGGCAA AATGCCGCAA AAAAGGGAAT AAGGGCGACA CGGAAATGTT GAATACTCAT ACTCTTCCTT
TTTCAATATT ATTGAAGCAT TTATCAGGTG TATTGTCTCA TGAGCGGATA CATATTTGAA TGTATTTAGA
AAAATAACA AATAGGGGTT CCGCGCAT TCCCCGAAA AGTGCCACCT GACGTCTAAG AAACCATTAT
TATCATGACA TTAACCTATA AAAATAGGCG TATCACGAGG CCCTTTCGTC TCGCGGTTT CGGTGATGAC
GGTAAAACC TCTGACACAT GCAGCTCCCG GAGACGGTCA CAGCTTGCT GTAAGCGGAT GCCGGGAGCA
GACAAGCCCG TCAGGGCGCG TCAGCGGGTG TTGGCGGGTG TCGGGGCTGG CTTAACTATG CGGCATCAGA
GCAGATTGTA CTGAGAGTGC ACCATAAAT TGTAACGTT AATATTTTGT TAAAATTCGC GTTAAATTTT
TGTTAAATCA GCTCATTTTT TAACCAATAG GCCGAAATCG GCAAAATCCC TTATAATCA AAAGAATAGC
CCGAGATAGG GTTGAGTGTT GTTCCAGTTT GGAACAAGAG TCCACTATTA AAGAACGTGG ACTCCAACGT
CAAAGGGCGA AAAACCGTCT ATCAGGGCGA TGGCCCACTA CGTGAACCAT CACCAAATC AAGTTTTTTG
GGTTCGAGGT GCCGTAAAGC ACTAAATCGG AACCCATAAG GGAGCCCCCG ATTTAGAGCT TGACGGGGAA
AGCCGGCGAA CGTGCGGAGA AAGGAAGGGA AGAAAGCGAA AGGAGCGGGC GCTAGGGCGC TGGCAAGTGT
AGCGGTACAG CTGCGGTAA CCACCACACC CGCCGCGCTT AATGCGCCGC TACAGGGCGC GACTATGGT
TGCTTTGACG TATGCGGTGT GAAATACCGC ACAGATCGCT AAGGAGAAAA TACCGCATCA GGCGCCATC
GCCATTCAGG CTGCGCAACT GTTGGGAAGG GCGATCGGTG CGGGCTCTT CGTATTACG CCAGCTGGCG
AAAGGGGAT GTGCTGCAAG GCGATTAAGT TGGTAACGC CAGGGTTTTC CCAGTACGA CGTTGTAATA
CGACGGCCAG TGAATTGGAG GCTACAGTCA GTGGAGAGGA CTTTCACAGG CTGTCGCCGT GCTCATTTGA

```



[View online »](#)

TAACTGCCG TTATTCATGC GACACACAGG GTGCCTTGTG CTCCCAACC TAGTGTCATG ACGTCCCAA
 CCATTTTCGAG GGCAGGGCCA CGGCATGCCT CAGGCTCCAG AAGGCAGCTG TCCGTTTCCC ACTCCCACCT
 CGGGGAGCAC AGCAGGGGTC TTCCCATACC CCTACTGGCA GGATTGCGTG TTCCCCAGAG ACAGTGGAGG
 GCAGAGCTGG TGCTTCCCA CTTGTCCCT CCTCGCCATC CTCGAGGGCA GGACCGTATG AACCCCTCAG
 ATTCCTCCGT GGAAGAACTG TGGCTCCACC AGATCCAAA AAGCAAGGCC CGTTTCTAC AACCCCGAA
 GGAGGGTCGT CCTCACTCCG CCGCCAACCT ACTAGACCA TCACCAGACC CTCGAGGGCG GTGCCGTGGA
 CCTCTCCAGA TCTCAAAGG CAGATTCCTA CTTCTTACG CCCCACATC ACCCGCTCG AGACCTCAAG
 GGTAGAGGTG GGCACCCCG CCTCCGCACT TTTGCTCGGG GCTCCAGATT GTAGGGCAGG GCGGCGCTTC
 TCGAAAGCG AAAGCCGGCG GGGCGGGCG GGTGCCGAG GAGAAAGAG AAGCGCTGGC AGACAACCTAG
 CATGGAGAGC GACGAGAGCG GCCTGCCCG CATGGAGATC GAGTGCCGCA TCACCGGCAC CCTGAACGGC
 GTGGAGTTC AGCTGGTGGG CCGCGGAGAG GGCACCCCG AGCAGGGCCG CATGACCAAC AAGATGAAGA
 GCACAAAGG CGCCTGACC TTCAGCCCT ACCTGCTGAG CCACGTGATG GGCTACGGCT TCTACCACTT
 CCGCACCTAC CCCAGCGGCT ACGAGAACC CTTCTGCAC GCCATCAACA ACGGCGGCTA CACCAACACC
 CGCATCGAGA AGTACGAGGA CCGCGGCGTG CTGCACGTGA GCTTCAGTA CCGCTACGAG GCCGGCCGG
 TGATCGGCGA CTTCAAGGTG ATGGGCACCG GCTTCCCGA GGACAGCGTG ATCTTACC ACCAAGATCAT
 CCGCAGCAAC GCCACCGTG AGCACCTGCA CCCCATGGC GATAACGATC TGGATGGCAG CTTACCCCGC
 ACCTTCAGCC TCGCGACGG CGGCTACTAC AGCTCCGTGG TGGACAGCCA CATGCACCTT AAGAGCGCCA
 TCCACCCAG CATCCTGCAG AACGGGGGCC CCATGTTCCG CTTCCGCGC GTGGAGGAGG ATCACAGCAA
 CACCGAGCTG GGCATCGTGG AGTACCAGCA CGCCTTCAAG ACCCGGATG CAGATGCCGG TGAAGAAAGA
 GTTAAAGAAT TCCGATCATA TTCAATAACC CTTAATATAA CTTCTGATAA TGTATGCTAT ACGAAGTTAT
 TAGGTCTGAA GAGGAGTTTA CGTCCAGCCA AGCTTAGGAT CTCGACCTCG AAATTCTACC GGGTAGGGGA
 GCGCTTTTC CCAAGGCAGT CTGGAGCATG CGCTTAGCA GCCCGCTGG CACTTGGCG TACACAAGTG
 GCCTCTGGCC TCGCACACAT TCCACATCCA CCGGTAGCG CAACCGGCTC CGTTCTTTGG TGGCCCTTC
 GCGCCACCTT CTACTCTCC CCTATCAGG AAGTTCCCG CCGCCCGCA GCTCGCGTCG TGCAGGACGT
 GACAAATGGA AGTAGCACGT CCACTAGTC TCGTGCAGAT GGACAGCACC GCTGAGCAAT GGAAGCGGGT
 AGGCCTTTGG GGCAGCGGCC AATAGCAGCT TTGCTCCTT GCTTTCTGG CTCAGCAGCT GGAAGGGTG
 GGTCCGGGG CCGGCTCAGG GCGGGCTCA GGGCGGGG GGGCGCCGA AGGTCTCCG GAGGCCGGC
 ATTCTGCACG CTTCAAAGC GCACGTCTGC CCGCTGTTT TCCTCTTCT CATCTCCGG CCTTTCGACC
 TGCATCCATC TAGATCTCGA GCAGCTGAAG CTTACCATGA CCGAGTACA GCCCACGGT CGCCTCGCCA
 CCCGCGACGA CGTCCCAGG GCCGTACGCA CCCTCGCCG CCGGTTCCG GACTACCCG CCACGCGCCA
 CACCGTCGAT CCGGACCGC ACATCGAGCG GGTACCGAG CTGCAAGAAC TCTTCTCAC GCGCGTCGGG
 CTCGACATCG GCAAGGTGTG GGTGCGGAC GACGCGCCG CCGTGGCGGT CTGGACCACG CCGGAGAGCG
 TCGAAGCGGG GCGGTGTTT GCCGAGATCG GCCCGCGCAT GGCCGAGTTG AGCGGTTCC GGCTGGCCG
 GCAGAACAG ATGGAAGGCC TCCTGGCGC GCACCGGCC AAGGAGCCG CGTGGTTCT GGCCACCGTC
 GCGGTCTCG CCGACCACA GGGCAAGGT CTGGGACG CCGTCTGCT CCCCAGGAGT GAGGCGGCCG
 AGCGCGCCG GGTGCCCGC TTCCTGGAGA CCTCCGCGC CCACAACCTC CCCTTCTAC AGCGGCTCGG
 CTTACCGTC ACCGCGACG TCGAGGTGCC CGAAGGACCG CGCACCTGG GCATGACCCG CAAGCCCGT
 GCCTGACGCC CGCCCCAG CAACGACGCG CCGACCGAAA GGAGCGCACG ACCCATGCA TCGATGAT
 CAGATCCCCG GGATGCAGAA ATTGATGATC TATTAACAA TAAAGATGTC CACTAAAATG GAAGTTTTTC
 CTGTCATACT TTGTTAAGAA GGGTGAGAAC AGAGTACCTA CATTGTAAT GGAAGGATTG GAGCTACGGG
 GGTGGGGTG GGGTGGGATT AGATAAATGC CTGCTCTTTA CTGAAGGCTC TTTACTATTG CTTTATGATA
 ATGTTTCATA GTTGATATC ATAATTTAAA CAAGCAAAAC CAAATTAAG GCCAGCTCAT TCCTCCACT
 CATGATCTAT AGATCTATAG ATCTCTCGTG GGATCATTGT TTTTCTCTT ATTCCACTT TGTGGTTCTA
 AGTACTGTGG TTTCAAATG TGTCAAGTTT ATAGCCTGAA GAACGAGATC AGCAGCTCT GTTCCACATA
 CACTTCATTC TCAGTATTGT TTTGCCAAGT TCTAATTCCA TCAGAAGCTG GTCGAGATCC GGAACCCTTA
 ATATAACTTC GTATAATGTA TGCTATACGA AGTTATTAG TCCCTCGAAG AGTTTACTA GGCAGCTCTG
 TCTCTGTTCT TGAACGTGCG GACACAGGTG GCGGCCGACT GGACCGCGCT GCGGAGGAG ATGACTTTG
 AGTACTTGGA GATCCGGCAA CTGGAGACAC AAGCGGACCC CACTGGCAGG CTGCTGGACG CCTGGCAGGG
 ACGCCCTGGC GCCTCTGTAG GCCGACTGCT CGAGCTGCTT ACCAAGCTGG GCCGCGACGA CGTGCTGCTG
 GAGCTGGGAC CCAGCATTGG TGAGGACGTC CCCTTCTGG CCTCGTACCT GGGGGGTGAG GAGGCTGACT
 TTCCGCGGCC TCAGCATCCT GTCTCCCATG GAGAGACCC ATTTCTGCT TCGGGGGCC GAAGAAGCCT
 GCAGAGGGAG AACCATGCGG GTCCCGTTCC TTCTTAATA CCGTCCGCGG TTATTAAGAA GGACTGGAGA

AAGTCCGGA TAGGCGGAGA TGGGAAGGAA GCAGCTTAGG CAGAGGCTTT CAGGTAGGGC CAGGAGTCAG
 AATCAGGCTT CTGTGGGGG ATCTGGGCTG TTTCAAGTAG AGCAACAGGA CAGGTGGGGC GATTGACAGT
 GGACTGTCTT AGAAACCTCA AGTCTGGGG AAATGCAGTC ACTCTCGCCG GTTGGACTTT AGATCAGAAG
 GGATCTTGCT GCCGCCGAA AGAGGAAGGG CTGGAAGAGG AAGGAGCTTG GCGTAATCAT GGTCATAGCT
 GTTTCCTGTG TGA AATTGTT ATCCGCTCAC AATTCCACAC AACATACGAG CCGGAAGCAT AAAGTGTA
 GCCTGGGGTG CCTAATGAGT GAGCTAACTC ACATTAATTG CGTTGCGCTC ACTGCCCGCT TTCCAGTCGG
 GAAACCTGTC GTGCCAGCTG CATTAATGAA TCGGCCAACG CGCGGGGAGA GCGGTTTGC GTATTGGGCG
 CTCTCCGCT TCCTCGCTCA CTGACTCGCT GCGCTCGGTC GTTCGGCTGC GCGGAGCGGT ATCAGCTCAC
 TCAAAGGCGG TAATACGGTT ATCCACAGAA TCAGGGGATA ACGCAGGAAA GAACATGTGA GCAAAAAGGCC
 AGCAAAAGGC CAGGAACCGT AAAAAGGCCG CGTTGCTGGC GTTTTTCCAT AGGCTCCGCC CCCCTGACGA
 GCATCACAAA AATCGACGCT CAAGTCAGAG GTGGCGAAAC CCGACAGGAC TATAAAGATA CCAGGCGTTT
 CCCCTGGAA GCTCCCTCGT GCGCTCTCCT GTTCCGACCC TGCCGCTTAC CGGATACCTG TCCGCCTTTC
 TCCCTTCGGG AAGCGTGGCG CTTTCTCATA GCTCACGCTG TAGGTATCTC AGTTCGGTGT AGGTCGTTTCG
 CTCCAAGCTG GGCTGTGTGC ACGAACCCCC CGTTCAGCCC GACCGCTGCG CTTATCCGG TAACTATCGT
 CTTGAGTCCA ACCCGGTAAG ACACGACTTA TCGCCACTGG CAGCAGCCAC TGGAACAGG ATTAGCAGAG
 CGAGGTATGT AGGCGGTGCT ACAGAGTTCT TGAAGTGGTG GCCTAACTAC GGCTACACTA GAAGGACAGT
 ATTTGGTATC TGCCTCTGC TGAAGCCAGT TACCTTCGGA AAAAGAGTTG GTAGCTCTTG ATCCGGCAAA
 CAAACCACCG CTGGTAGCGG TGGTTTTTTT GTTTGCAAGC AGCAGATTAC GCGCAGAAAA AAAGGATCTC
 AAGAAGATCC TTTGATCTTT TCTACGGGGT CTGACGCTCA GTGGAACGAA AACTCACGTT AAGGGATTTT
 GGTGATGAGA TTATCAAAA GGATCTTAC CTAGATCCTT TAAATTTAAA AATGAAGTTT TAAATCAATC
 TAAAGTATAT ATGAGTAAAC TTGGTCTGAC AGTTACCAAT GCTTAATCAG TGAGGCACCT ATCTCAGCGA
 TCTGTCTATT TCGTTCATCC ATAGTTGCCT GACTCCCGT CGTGTAGATA ACTACGATAC GGGAGGGCTT
 ACCATCTGGC CCCAGTGTG CAATGATACC GCGAGACCCA CGCTCACCGG CTCCAGATTT ATCAGCAATA
 AACACGCCAG CCGGAAGGGC CGAGCGCAGA AGTGGTCTG CAACTTTATC GGCCTCCATC CAGTCTATTA
 ATTGTTGCCG GGAAGCTAGA GTAAGTAGTT CGCCAGTTAA TAGTTTGCGC AACGTTGTTG CCATTGCTAC
 AGGCATCGTG GTGTCACGCT CGTCGTTTGG TATGGCTTCA TTCAGCTCCG GTTCCAACG ATC

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_001172566](#), [NM_001172567](#), [NM_001172568](#), [NM_001172569](#), [NM_002468](#),
[NM_001365877](#), [NM_001365876](#)

UniProt ID:

[Q99836](#)

Synonyms:

MYD88D

Summary:

This gene encodes a cytosolic adapter protein that plays a central role in the innate and adaptive immune response. This protein functions as an essential signal transducer in the interleukin-1 and Toll-like receptor signaling pathways. These pathways regulate that activation of numerous proinflammatory genes. The encoded protein consists of an N-terminal death domain and a C-terminal Toll-interleukin1 receptor domain. Patients with defects in this gene have an increased susceptibility to pyogenic bacterial infections. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Feb 2010]

Product images:

