

Product datasheet for **KN215501**

ALG12 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:	ALG12
Locus ID:	79087
Components:	<p>KN215501G1, ALG12 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GGCCGTAGCCACTGTCCACC</p> <p>KN215501G2, ALG12 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CATCTGTCCCTACACCAAAG</p> <p>KN215501D, 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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GGGGGCTTTG CTGGCCACTC GAGCCCTGTG TCCCAGCAGC TGTACTACGT TCAGTTTCTT GCCCTCCCGG
GGCCCCTGTC CACCACTCTC CAGCTTGGTG CCTCCCACCC AGCTAACTGG CACCCCTCAG CCTCCCATTG
CGTCTTCTTC AGCCGGTTCC CTCGGGGCCA AGCCTGGGTT TTGCTGACTC TCCTGCCAGA TTTAGACTGG
GGGGCAGGGG CCATTTACCA CCCTCCATTG CCCTCGTGGC CCAGGCCTGG TCAGACTCAG GGTTCCTGCGA
CTGAGATCCT TCTGCCTAGA AAAACATTCA CAGAGCTGGA AGTGTCAGAT CACTGGTTAC AGTATGAAAG
ATTCTCAAGT GTGATTTTTT CTCCAAACTT TCCATCTTGA TCGTTTTTCA GATTTGTAGT AGTGCGACTA
AGACAGTAGT TCAGAGAATT CTGCTAACCC TTTACCCGGA TCTCCCAAAC GTGAGCGCAA GCGTGACTTT
CGAACCTCAG GAATCTGTTT CCACTTTTCC AGCATGCGTG GAGTGGCAGT GCTAACGGCT GGTGTCTCGC
ACTGTTGGCC TGTGAAGGTA CGTGAAGCTG AAAGCCTGGA TGGAGGAGAG CTTCAACCTG CAGGCCACAC
ATGACCTGCT CTACCACTGG CAAGACCTGG AGCAGGTGAG GGGCCCCTGC TGTCTTTGGG GAAAACCTCA
TGTTACCAGC TGGCAGGGCC CCGGTGCACT GACCTGCCCT TCTCCTCGCA GTACGACCAT CTTGAGTTCC
CCGGAGTCGT CCCCAGGACG TTCCTCGGGC CAGTGGTGAT CGCAGTGTTT TCCAGCCCCG CGGTTTACGT
GCTTTCGCTG TTAGAAATGT CCAAGTTTTA CTCTCAGCTA ATAGGTAAGG GGTCTTCAA CAAAGGAGGA
GGGAGTGAGG GACTGTGGTG TCATCGGGTG ACCTCAGCGA GGCCGCGGTC CCTCCTGCC AGGAACGCTG
TCTGTTAGTC TTGCCTGCC TCGATACCG TGGCATGGCG GCTCAGAGCA GGTGCTCAGG TCAGGCCTAA
GACGTCTGAG TCAGCCCCTC TGTGCCTCCA CACTCTTGAC TGTGAAATTA GGGGTGACGG CAGGTACAAG
AGAAATGCCG ACTGCCTGTG AGGCAGCTCT CGCCACCTGA GCCTGCTGCT CCCGCTCAC CTGGCAAGCC
CCCATGGGGT
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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_024105](#)

UniProt ID: [Q9BV10](#)

Synonyms: CDG1G; ECM39; hALG12; PP14673

Summary: This gene encodes a member of the glycosyltransferase 22 family. The encoded protein catalyzes the addition of the eighth mannose residue in an alpha-1,6 linkage onto the dolichol-PP-oligosaccharide precursor (dolichol-PP-Man(7)GlcNAc(2)) required for protein glycosylation. Mutations in this gene have been associated with congenital disorder of glycosylation type Ig (CDG-Ig) characterized by abnormal N-glycosylation. [provided by RefSeq, Jul 2008]

Product images:

