

Product datasheet for **KN200700**

PML Protein (PML) 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:	PML Protein
Locus ID:	5371
Components:	<p>KN200700G1, PML Protein gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CTCGGAGATCGGGCGGGTGC</p> <p>KN200700G2, PML Protein gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GGCCTTCAGAGGGGTCTCG</p> <p>KN200700D, 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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CCAAAATTAG TTCCCAAACA GGCTTTTGCA AGAGCTATCT TTTCTGTTTC AAGTGTCCTC CGTACCCAC
CACCTACAAC CTTAAATCCC TGGTGAATTT CACTGCTTT TGCAGGTCCT AGCTGTGGGC TCTCCTTTCC
AGAATGTCTC CGTTTGCAGG CTTGCTCTTC CATTACATCT ACGGCTCTTA GAAAGCAGGG GCTGCGTGTG
GCTCATCTTT GTACGCCAG CTCCCGGCAG GACGTGGCAC GAAGCAGTGC CAGTGTGAAC GGATGAATGG
ATCAAAGCCG GGAGCAGGGC TGCCCCCTG CAGCTCTGCC CTACCTCTCC CGCTTTACCG TAAGTCAGCG
GTAGGTCTGC AGCTCTCCGC CTCTACCTCC TCCCCGCTCT GGGCGTGTCT TAAAAACCCA CAGTCGCCT
CTCTGCCCCC TAGAACC GCCAGCTTCT GTCTCACTTC CTCTCCAGAG GCGGGCCCTG AGCCGGCACC
TCCCCTTTCG GACAGCTCAA GGGACTCAGC CAACTGGCTC ACGCCTCCCC TTCAGCTTCT CTTACGCAC
TCCAAGATCT AAACCGAGAA TCGAAACTAA GCTGGGGTCC TACAGAGGTA CTATTGGGTT AGGGGATGAT
GGGGTTAAGC TTTGTTGGTT TGCTGTGGTG GGGAGAGGCG GGAAGAGAGG GTCTAACGGA GGATTTGGTC
AAGTACCCTA GAGAGTGACA CAAAGCGGGA AGTCCAGACA CCAGGGTCTT GACCGTCTCG GGTGGGGCAG
GGAAGGGAGG GTAGGATAGA GTAGAAAAGA GGACACGGAG GAGTTGGGGC GGCTCGCTG GGCTGCGGTT
TCTCCACTGA GCAGTTGGGC AAGGTGAGAA GGGTCAGTGG CCTCCGGGCC TGGGCCCTTC CGCCACCCT
CGAGCCCTGC CTCAACTTTG CCTCAGATGC AGGACTTCAG ATTAGGGAGG ATGGAGGTAG TACCCCTGTT
GCCTGGCCT GGAGCCAGGG GCATGTCCCA GGCACGGCAA AACTAAAACC AACTTCCAG ATCCGAGGTG
AGAAACTGGC TCAGACTGAA GAGGTATCTT TGCCAAGGCC TCCCAGCTCA TGTGGTTTCT GCTTAAGGAA
GCCTCCCAA CGAACCTTC TCTTGCCACA CCTTCTCTGC CCACCTCCCA CCTCCCCGA CAAAGGAACT
ACTTGGGTTT

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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_002675](#), [NM_033238](#), [NM_033239](#), [NM_033240](#), [NM_033242](#), [NM_033244](#), [NM_033245](#), [NM_033246](#), [NM_033247](#), [NM_033249](#), [NM_033250](#)

UniProt ID: [P29590](#)

Synonyms: MYL; PP8675; RNF71; TRIM19

Summary: The protein encoded by this gene is a member of the tripartite motif (TRIM) family. The TRIM motif includes three zinc-binding domains, a RING, a B-box type 1 and a B-box type 2, and a coiled-coil region. This phosphoprotein localizes to nuclear bodies where it functions as a transcription factor and tumor suppressor. Its expression is cell-cycle related and it regulates the p53 response to oncogenic signals. The gene is often involved in the translocation with the retinoic acid receptor alpha gene associated with acute promyelocytic leukemia (APL). Extensive alternative splicing of this gene results in several variations of the protein's central and C-terminal regions; all variants encode the same N-terminus. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]

Product images:

