

## Product datasheet for **KN400865**

### **BRUNOL4 (CELF4) Human Gene Knockout Kit (CRISPR)**

#### **Product data:**

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 linear donor
Donor DNA:	EF1a-GFP-P2A-Puro
Symbol:	BRUNOL4
Locus ID:	56853



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**Components:**
**KN400865G1**, BRUNOL4 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)

**KN400865G2**, BRUNOL4 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)

**KN400865D**, Linear donor DNA containing LoxP-EF1a-tGFP-P2A-Puro-LoxP:

The sequence below is cassette sequence only. The linear donor DNA also contains proprietary target sequence.

LoxP-EF1a-tGFP-P2A-Puro-LoxP (2739 bp)

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ATAACTTCGT ATAATGTATG CTATACGAAG TTATCGTGG GCTCCGGTGC CCGTCAGTGG GCAGAGCGCA
CATCGCCAC AGTCCCCGAG AAGTTGGGG GAGGGGTCGG CAATTGAACC GGTGCCTAGA GAAGGTGGCG
CGGGGTAAC TGGGAAAGTG ATGTCGTGTA CTGGCTCCGC CTTTTCCCG AGGGTGGGG AGAACCCTAT
ATAAGTCAG TAGTCGCCG GAACGTTCTT TTTCCGAACG GGTTCGCCG CAGAACACAG GTAAGTGCCG
TGTGTGGTTC CCGCGGGCCT GGCCTCTTTA CGGGTTATGG CCCTTGCGTG CCTTGAATTA CTTCCACCTG
GCTGCAGTAC GTGATTCTTG ATCCCGAGCT TCGGGTTGGA AGTGGGTGGG AGAGTTCGAG GCCTTGCGCT
TAAGGAGCCC CTTCGCCTCG TGCTTGAGTT GAGGCCTGGC CTGGGCGCTG GGGCCCGCG GTGCGAATCT
GGTGGCACCT TCGCGCCTGT CTCGCTGCTT TCGATAAGTC TCTAGCCATT TAAAATTTT GATGACCTGC
TGCAGCGCTT TTTTCTGGC AAGATAGTCT TGTAATGCG GGCCAAGATC TGCACACTGG TATTTTCGTT
TTTGGGGCCG CGGGCGGCGA CGGGGCCCGT GCGTCCCAGC GCACATGTTC GGCAGGCGG GGCCTGCGAG
CGCGGCCACC GAGAATCGGA CGGGGGTAGT CTAAGCTGG CCGGCCTGCT CTGGTGCCTG GCCTCGCGCC
GCCGTGTATC GCCCGCCCT GGGCGGCAAG GCTGGCCCGG TCGGCACCAG TTGCGTGAGC GGAAAGATGG
CCGCTTCCCG GCCCTGTGC AGGGAGCTCA AAATGGAGGA CGCGGCGCTC GGGAGAGCGG GCGGGTGAAGT
CACCCACACA AAGGAAAAGG GCCTTCCCGT CCTCAGCCGT CGCTTCATGT GACTCCACGG AGTACCGGGC
GCCGCTCAGG CACCTCGATT AGTTCTCGAG CTTTTGGAGT ACGTCGTCTT TAGTTGGGG GGAGGGGTTT
TATGCGATGG AGTTTCCCA CACTGAGTGG GTGGAGACTG AAGTTAGGCC AGCTTGGCAG TTGATGTAAT
TCTCCTTGGG ATTTGCCCTT TTTGAGTTTG GATCTTGGTT CATTCTCAAG CCTCAGACAG TGGTTCAAAG
TTTTTTCTT CCATTTCAAG TGTCGTGAAT GGAGAGCGAC GAGAGCGGCC TGCCCGCCAT GGAGATCGAG
TGCCGCATCA CCGGCACCCT GAACGGCGTG GAGTTCGAGC TGGTGGGCGG CGGAGAGGGC ACCCCCGAGC
AGGGCCGCAT GACCAACAAG ATGAAGAGCA CCAAAGGCGC CCTGACCTTC AGCCCTACC TGCTGAGCCA
CGTGATGGG TACGGCTTCT ACCACTTCGG CACCTACCCC AGCGGCTACG AGAACCCCTT CCTGCACGCC
ATCAACAACG GCGGCTACAC CAACACCCG ATCGAGAAGT ACGAGGACGG CGGCGTGCTG CACGTGAGCT
TCAGCTACCG CTACGAGGCC GGCCGCGTGA TCGGCGACTT CAAGGTGATG GGCACC GGCT TCCCCGAGGA
CAGCGTGATC TTCACCGACA AGATCATCCG CAGCAACGCC ACCGTGGAGC ACCTGCACCC CATGGCGGAT
AACGATCTGG ATGGCAGCTT CACCCGACC TTCAGCCTGC GCGACGGCGG CTACTACAGC TCCGTGGTGG
ACAGCCACAT GCACTTCAAG AGCGCCATCC ACCCCAGCAT CCTGCAGAAC GGGGGCCCA TGTTCCCTT
CCGCCCGTG GAGGAGGATC ACAGCAACAC CGAGTGGGG ATCGTGGAGT ACCAGCACGC CTTCAAGACC
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GGTGTTCGCC GAGATCGGCC CGCGCATGGC CGAGTTGAGC GGTTCGCCG TGGCCGCGCA GCAACAGATG
GAAGGCCTCC TGCGCCGCA CCGGCCAAG GAGCCCGCT GTTCTCTGGC CACCCTCGGC GTCTCGCCG
ACCACCAGG CAAGGTCTG GGCAGCCTG TCGTGTCCC CGGAGTGGAG GCGGCCGAGC GCGCCGGGT
GCCCGCTTCT CTGGAGACT CCGCGCCCG CAACCTCCC TTCTACGAGC GGCTCGGCT CACCGTCACC
GCCGACGTC AGGTGCCGA AGGACCGCG ACCTGGTGA TGACCCGCA GCCCGGTGCC TGAACTTGT
TTATTGCAGC TTATAATGGT TACAAATAA GCAATAGCAT CACAAATTC ACAAATAAG CATTTTTTT
ACTGCATTCT AGTTGTGGT TGTCCAACT CATCAATGTA TCTTAATAA TTCGTATAAT GTATGCTATA CGAAGTTAT
    
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<b>Disclaimer:</b>	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.
<b>RefSeq:</b>	<a href="#">NM_001025087</a> , <a href="#">NM_001025088</a> , <a href="#">NM_001025089</a> , <a href="#">NM_020180</a> , <a href="#">NM_001330603</a> , <a href="#">NM_001353695</a> , <a href="#">NM_001353696</a> , <a href="#">NM_001353697</a> , <a href="#">NM_001353698</a> , <a href="#">NM_001353699</a> , <a href="#">NM_001353700</a> , <a href="#">NM_001353701</a> , <a href="#">NM_001353702</a> , <a href="#">NM_001353703</a> , <a href="#">NM_001353705</a> , <a href="#">NM_001353706</a> , <a href="#">NM_001353707</a> , <a href="#">NM_001353708</a> , <a href="#">NM_001353709</a> , <a href="#">NM_001353710</a> , <a href="#">NM_001353711</a> , <a href="#">NM_001353712</a> , <a href="#">NM_001353713</a> , <a href="#">NM_001353714</a> , <a href="#">NM_001353715</a> , <a href="#">NM_001353716</a> , <a href="#">NM_001353717</a> , <a href="#">NM_001353718</a> , <a href="#">NM_001353719</a> , <a href="#">NM_001353720</a> , <a href="#">NM_001353721</a> , <a href="#">NM_001353722</a> , <a href="#">NM_001353723</a> , <a href="#">NM_001353724</a> , <a href="#">NM_001353725</a> , <a href="#">NM_001353726</a> , <a href="#">NM_001353727</a> , <a href="#">NM_001353728</a> , <a href="#">NM_001353729</a> , <a href="#">NM_001353730</a> , <a href="#">NM_001353731</a> , <a href="#">NM_001353732</a> , <a href="#">NM_001353733</a> , <a href="#">NM_001353734</a> , <a href="#">NM_001353735</a> , <a href="#">NM_001353736</a> , <a href="#">NM_001353737</a> , <a href="#">NM_001353738</a> , <a href="#">NM_001353739</a> , <a href="#">NM_001353740</a> , <a href="#">NM_001353741</a> , <a href="#">NM_001353742</a> , <a href="#">NM_001353743</a> , <a href="#">NM_001353744</a> , <a href="#">NM_001353745</a> , <a href="#">NM_001353746</a> , <a href="#">NM_001353747</a> , <a href="#">NM_001353748</a> , <a href="#">NM_001353749</a> , <a href="#">NM_001353750</a> , <a href="#">NM_001353751</a> , <a href="#">NM_001353752</a> , <a href="#">NM_001353753</a> , <a href="#">NM_001353754</a> , <a href="#">NM_001353755</a> , <a href="#">NM_001353756</a> , <a href="#">NM_001353757</a> , <a href="#">NM_001353758</a> , <a href="#">NM_001353759</a> , <a href="#">NM_001353760</a> , <a href="#">NM_001353761</a> , <a href="#">NR_148518</a> , <a href="#">NR_148519</a> , <a href="#">NR_148520</a> , <a href="#">NR_148521</a> , <a href="#">NR_148522</a> , <a href="#">NR_148523</a> , <a href="#">NR_148524</a> , <a href="#">NR_148525</a> , <a href="#">NR_148526</a> , <a href="#">NR_148527</a> , <a href="#">NR_148528</a>
<b>UniProt ID:</b>	<a href="#">Q9BZC1</a>
<b>Synonyms:</b>	BRUNOL-4; BRUNOL4
<b>Summary:</b>	Members of the CELF/BRUNOL protein family contain two N-terminal RNA recognition motif (RRM) domains, one C-terminal RRM domain, and a divergent segment of 160-230 aa between the second and third RRM domains. Members of this protein family regulate pre-mRNA alternative splicing and may also be involved in mRNA editing, and translation. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

**Product images:**
