

## Product datasheet for **KN218138**

### CPSF6 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:	CPSF6
Locus ID:	11052
Components:	<p><b>KN218138G1</b>, CPSF6 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: ATAGACATTTACGCGGATGT</p> <p><b>KN218138G2</b>, CPSF6 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GACCTGGGCTCTCACGTACC</p> <p><b>KN218138D</b>, 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
ATCATTTGAA AACGTTCTTC GGGCGAAAAA CTCTCAAGGA TCTTACCGCT GTTGAGATCC AGTTCGATGT
AACCCACTCG TGCACCCAAC TGATCTTCAG CATCTTTTAC TTTACCAGC GTTTCTGGGT GAGCAAAAAC
AGGAAGGCAA AATGCCGCAA AAAAGGGAAT AAGGGCGACA CGGAAATGTT GAATACTCAT ACTCTTCCTT
TTTCAATATT ATTGAAGCAT TTATCAGGT TATTGTCTCA TGAGCGGATA CATATTTGAA TGTATTTAGA
AAAATAACA AATAGGGGTT CCGCGCAT TCCCCGAAA AGTGCCACCT GACGTCTAAG AAACCATTAT
TATCATGACA TTAACCTATA AAAATAGGCG TATCACGAGG CCCTTTCGGG TCGCGGTTT CGGTGATGAC
GGTAAAACC TCTGACACAT GCAGCTCCCG TTGACGGTCA CAGCTTGCT GTAAGCGGAT GCCGGGAGCA
GACAAGCCCG TCAGGGCGCG TCAGCGGGTG TTGGCGGGTG TCGGGGCTGG CTTAACTATG CGGCATCAGA
GCAGATTGTA CTGAGAGTGC ACCATAAAAT 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
GGGTCGAGGT GCCGTAAAGC ACTAAATCGG AACCCATAAG GGAGCCCCCG ATTTAGAGCT TGACGGGGAA
AGCCGGCGAA CGTGCGGAGA AAGGAAGGGA AGAAAGCGAA AGGAGCGGGC GCTAGGGCGC TGGCAAGTGT
AGCGGTACG CTGCGGTAA CCACCACACC CGCCGCGCTT AATGCGCCGC TACAGGGCGC GACTATGGT
TGCTTTGACG TATGCGGTGT GAAATACCGC ACAGATCGCT AAGGAGAAAA TACCGCATCA GGCGCCATC
GCCATTCAGG CTGCGCAACT GTTGGGAAGG GCGATCGGTG CGGGCCTCTT CGCTATTACG CCAGCTGGCG
AAAGGGGAT GTGCTGCAAG GCGATTAAGT TGGTAACGC CAGGGTTTTC CCAGTACGA CGTTGTAATA
CGACGGCCAG TGAATTGGAG GCTACAGTCA GTGGAGAGGA CTTTCACTGA CTGACTGACT GGAAGACACA

```



[View online »](#)

CCTTAGAGAT GAAATGGCA ACATAACAG CATGCAAAGA TAACACTGA CGGGTATCTA GCGTTTACGA  
 TGCAAATAAA ACTCTGCTGG TCTCTGAGGA TGCAGAAACA AGACATTGTT TTTGGTCTTA AGCCGTTTAC  
 AGAATGCCCG GGGGTTACAC TTTGCATTTA AGCACGGACA TATAACTTCC ACCTTTAAAA GTCCTGGATG  
 TGAGAAAGAT AAGAACAACG GATAAATGAA AATATTAACA AAACGTCTGA GTATGCCAGA GGCCACGTGA  
 AAAGACGGTG TGTGAAACA GGTGGGACCC ACTGCTAAGC TGGATGCGCG AGTAGGACAA AAAAATTGGC  
 CCCCACTCCC GGGCCTCACC CAGACACAAA AGAAACGTCC TCTGCCCTCA GAGGCGCAGC CTTTCTCAG  
 CCAGCAGAGC GGCTGGGCTG CAGAGTCCCC GCCCCCGGCC GCGCCCTGTC GCGCCGCTT CCCTCCCTCG  
 GGCCTCGGAA GTGACGCAAG CGCCCCCCA CGCCCGTAG ATCCGCTGCT GCTGCCGCGG CGGGCAGACC  
 TGCAGGAGGC GCGGCGGCGC GCGGCGGCGC AGGCTGAAGG AAGACTAGCA TGGAGAGCGA CGAGAGCGGC  
 CTGCCCGCCA TGGAGATCGA GTGCCGCATC ACCGGCACCC TGAACGGCGT GGAGTTCGAG CTGGTGGGCG  
 GCGGAGAGGG CACCCCGAG CAGGGCCGCA TGACCAACA GATGAAGAGC ACCAAAGGCG CCCTGACCTT  
 CAGCCCCTAC CTGCTGAGCC ACGTGATGGG CTACGGCTTC TACCACTTCG GCACCTACCC CAGCGGCTAC  
 GAGAACCCCT TCCTGCACGC CATCAACAAC GCGGGCTACA CCAACACCCG CATCGAGAAG TACGAGGACG  
 GCGGCGTGCT GCACGTGAGC TTCAGCTACC GCTACGAGGC CGGCCGCGTG ATCGGCGACT TCAAGGTGAT  
 GGGCACCGGC TTCCCGAGG ACAGCGTGAT CTTACCCGAC AAGATCATCC GCAGCAACGC CACCGTGGAG  
 CACCTGCACC CCATGGGCGA TAACGATCTG GATGGCAGCT TCACCCGCAC CTTCAGCCTG CGCGACGGCG  
 GCTACTACAG CTCCGTGGTG GACAGCCACA TGCACTTCAA GAGCGCCATC CACCCAGCA TCCTGCAGAA  
 CGGGGGCCCC ATGTTCCGCT TCCGCCGCGT GGAGGAGGAT CACAGCAACA CCGAGCTGGG CATCGTGGAG  
 TACCAGCAGC CTTCAAGAC CCCGGATGCA GATGCCGGTG AAGAAAGAGT TTAAGAATTC CGATCATATT  
 CAATAACCCT TAATATAACT TCGTATAATG TATGCTATAC GAAGTTATTA GGTCTGAAGA GGAGTTTACG  
 TCCAGCCAAG CTTAGGATCT CGACCTCGAA ATTCTACCGG GTAGGGGAGG CGTTTTTCCC AAGGCAGTCT  
 GGAGCATCGC CTTTAGCAGC CCCGTGGGC ACTTGGCGCT ACACAAGTGG CCTCTGGCCT CGCACACATT  
 CCACATCCAC CGGTAGGCGC CAACCGACTC CGTTCTTTGG TGGCCCTTC GCGCCACCTT CTTACTCTCC  
 CCTAGTCAGG AAGTTCCCCC CGGCCCGCA GCTCGCGTCG TGCAGGACGT GACAAAATGGA AGTAGCACGT  
 CTTACTAGTC TCGTGCAGAT GGACAGCACC GCTGAGCAAT GGAAGCGGGT AGGCCTTTGG GGCAGCGGCC  
 AATAGCAGCT TTGCTCCTTC GCTTTCTGGG CTCAGAGGCT GGAAGGGGT GGGTCCGGGG GCGGGCTCAG  
 GGGCGGGCTC AGGGGCGGGG GGGGCGCCG AAGGTCTTCC GGAGGCCCGG CATTCTGCAC GCTTCAAAAG  
 CGCACGTCTG CCGCGCTGTT CTCCTCTTCC TCATCTCCGG GCCTTTTCGAC CTGCATCCAT CTAGATCTCG  
 AGCAGCTGAA GCTTACCATG ACCGAGTACA AGCCACGGT GCGCCTCGCC ACCCGCAGC ACGTCCCCAG  
 GGGCGTACG ACCCTCGCG CCGCGTTCG CACTACCC GCCACGCGCC ACACCGTGA TCCGGACCGC  
 CACATCGAGC GGGTCACCGA GCTGCAAGAA CTCTTCTCA CGCGCGTCGG GCTCGACATC GGCAAGGTGT  
 GGGTCGCGGA CGACGGCGCC GCGGTGGCGG TCTGACCAC GCCGGAGAGC GTCGAAGCGG GGGCGGTGTT  
 CGCCGAGATC GGCCCGCGCA TGGCCGAGTT GAGCGGTTCC CGGCTGGCCG CGCAGCAACA GATGGAAGGC  
 CTCTGGCGC CGCACCGGCC CAAGGAGCCC GCGTGGTTCC TGGCCACCGT CGGCGTCTCG CCCGACCACC  
 AGGGCAAGGG TCTGGGCAGC GCCGTCGTGC TCCCGGAGT GGAGGCGGCC GAGCGCGCC GGGTCCCCGC  
 CTTCTGGAG ACCTCCGCGC CCCACAACCT CCCCTTCTAC GAGCGGCTCG GCTTACCGT CACCGCCGAC  
 GTCGAGGTGC CCGAAGGACC GCGCACCTGG TGCATGACC GCAAGCCCGG TGCCTGACGC CCGCCCCAG  
 ACCCGCAGCG CCCGACCGAA AGGAGCGCAC GACCCCATGC ATCGATGATA TCAGATCCCC GGGATCGAGA  
 AATTGATGAT CTATTAACA ATAAAGATGT CCACTAAAAT GGAAGTTTTT CCTGTCATC TTTGTTAAGA  
 AGGGTGAGAA CAGAGTACCT ACATTTTGAA TGAAGGATT GGAGCTACGG GGGTGGGGT GGGGTGGGAT  
 TAGATAAATG CTTGCTCTTT ACTGAAGGCT CTTTACTATT GCTTTATGAT AATGTTTCAT AGTTGGATAT  
 CATAATTTAA ACAAGCAAAA CCAAAATTAAG GGCCAGCTCA TTCCTCCAC TCATGATCTA TAGATCTATA  
 GATCTCTCGT GGGATCATTG TTTTCTCTT GATTCCACT TTGTGGTTCT AAGTACTGTG GTTTCCAAAT  
 GTGTCAGTTT CATAGCCTGA AGAACGAGAT CAGCAGCTC TGTTCCACAT ACACTTCATT CTCAGTATTG  
 TTTTGCCAAG TTCTAATTCC ATCAGAAGCT GGTCGAGATC CGGAACCCTT AATATAACTT CGTATAATGT  
 ATGCTATACG AAGTTATTAG GTCCTCGAA GAGGTTCACT AGGCGCGCCA CTTTCTGAAG GCGACTGAGG  
 TGGGGCTCA TTTGCAACAA GTCCTTTGAC TTTTGGAGCC ACAGATAAAA GTCGGTGGCG TGGTCTGCC  
 TCATTAATCC AGGGCTTGCA GTGCTTTGAA GCCCAGTCGT TGTTGGCCTT TGTGATGAAA ATACCTGTGA  
 AGATGAGTGG CCGGGGACCA AAAGGAAGAA TTGGAAGCGC GATGGTTGGA TGAACAACAA AGATGTTAGC  
 TCACCCACAG ATCTCATAGT GATTAATAATG AAAGAACGTT CACCCCAAT CTTATGATG TGGTTTAAAA  
 ATAAGAGTT ATAGATAAGA CCCTATTTTC GAAAACAAGG TGTTAAATCC CCCCACCCCC ACCCCCGGGC  
 CCCGTGTTAC CTTTTGAAAG GTTGAGCGAA AGTGAGAATG CAAGGTTTTT CTGACGACG TGTCTTAGAG

GTAACGCGGG GCTGTGATGT CTGTTAATGG GCATCCTTGC AAAAGATGTC GTTTGTTGCT AGTGACGTTT  
 AAGGTTTGAA CTTGCTGTTC GTATCTACTG CATTTTATGT AGTAACACAT TTAACAACAAT TAAATTGTGC  
 TTAAGTGC AA TGTTCTAAA GCAAGAGACC ACTGACTGAC TGACTGGAAA GAGGAAGGGC TGGAAGAGGA  
 AGGAGCTTGG CGTAATCATG GTCATAGCTG TTTCTGTGT GAAATTGTTA TCCGCTCACA ATTCCACACA  
 ACATACGAGC CGGAAGCATA AAGTGTAAG CCTGGGGTGC CTAATGAGTG AGCTAACTCA CATTAAATTGC  
 GTTGCGCTCA CTGCCCGCTT TCCAGTCGGG AAACCTGTGC TGCCAGCTGC ATTAATGAAT CGGCCAACGC  
 GCGGGGAGAG GCGGTTTGGC TATTGGGCGC TCTTCCGCTT CCTCGCTCAC TGACTCGCTG CGCTCGGTGC  
 TTCGGCTGCG GCGAGCGGTA TCAGCTCACT CAAAGGCGGT AATACGGTTA TCCACAGAAT CAGGGGATAA  
 CGCAGGAAAG AACATGTGAG CAAAAGGCCA GCAAAAGGCC AGGAACCGTA AAAAGGCCGC GTTGCTGGCG  
 TTTTCCATA GGCTCCGCC CCCTGACGAG CATCACAAAA ATCGACGCTC AAGTCAGAGG TGGCGAAACC  
 CGACAGGACT ATAAAGATAC CAGGCGTTTC CCCCTGGAAG CTCCCTCGTG CGCTCTCCTG TTCCGACCCT  
 GCCGCTTACC GGATACCTGT CCGCCTTTCT CCCTTCGGGA AGCGTGGCGC TTTCTCATAG CTCACGCTGT  
 AGGTATCTCA GTTCGGTGTA GGTTCGTTTCG TCCAAGCTGG GCTGTGTGCA CGAACCCCCG GTTCAGCCCG  
 ACCGCTGCGC CTTATCCGGT AACTATCGTC TTGAGTCCA CCCGGTAAGA CACGACTTAT CGCCACTGGC  
 AGCAGCCACT GGTAACAGGA TTAGCAGAGC GAGGTATGTA GCGGGTGCTA CAGAGTTCTT GAAGTGGTGG  
 CCTAACTACG GCTACACTAG AAGAACAGTA TTTGGTATCT GCGCTCTGCT GAAGCCAGT ACCTTCGGAA  
 AAAGAGTTGG TAGCTCTTGA TCCGGCAAAC AAACCACCGC TGGTAGCGGT GGTTTTTTTG TTTGCAAGCA  
 GCAGATTACG CGCAGAAAAA AAGGATCTCA AGAAGATCCT TTGATCTTTT CTACGGGGTC TGACGCTCAG  
 TGGAACGAAA ACTCACGTTA AGGGATTTTG GTCATGAGAT TATCAAAAAG GATCTTCACC TAGATCCTTT  
 TAAATTAATA ATGAAGTTTT AAATCAATCT AAAGTATATA TGAGTAAACT TGGTCTGACA GTTACCAATG  
 CTTAATCAGT GAGGCACCTA TCTCAGCGAT CTGTCTATTT CGTTCATCCA TAGTTGCCTG ACTCCCCGTC  
 GTGTAGATA CTACGATACG GGAGGGCTTA CCATCTGGCC CCAGTGCTGC AATGATACCG CGAGAACCAC  
 GCTCACCGGC TCCAGATTA TCAGCAATA ACCAGCCAGC CGGAAGGGCC GAGCGCAGAA GTGGTCTGTC  
 AACTTTATCC GCCTCCATCC AGTCTATTAA TTGTTGCCGG GAAGCTAGAG TAAGTAGTTC GCCAGTTAAT  
 AGTTTGCGCA ACGTTGTTGC CATTGCTACA GGCATCGTGG TGTCACGCTC GTCGTTTGGT ATGGCTTCAT  
 TCAGCTCCGG TTCCAACGA TC

**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\\_001300947](#), [NM\\_007007](#)

**UniProt ID:**

[Q16630](#)

**Synonyms:**

CFIM; CFIM68; HPBR11-4; HPBR11-7

**Summary:**

The protein encoded by this gene is one subunit of a cleavage factor required for 3' RNA cleavage and polyadenylation processing. The interaction of the protein with the RNA is one of the earliest steps in the assembly of the 3' end processing complex and facilitates the recruitment of other processing factors. The cleavage factor complex is composed of four polypeptides. This gene encodes the 68kD subunit. It has a domain organization reminiscent of spliceosomal proteins. [provided by RefSeq, Jul 2008]

Product images:

