

Product datasheet for **KN214351**

ADCY7 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:	ADCY7
Locus ID:	113
Components:	<p>KN214351G1, ADCY7 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GGGCGCTACTTCCTCAACGA</p> <p>KN214351G2, ADCY7 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CGTAGAGCGCATCTTGGTCA</p> <p>KN214351D, 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

```
TGAGGTGGGA GAATCACTTG AGCCCGGGAG TTTGAGGCTG CAGTGAGCTA TGATCGTGCC ACTGCACTCC
AGCCTGGGCA ACAGAGTGAG GCCCTGTCTT GAAAAAAAAA AAAAAAAGCA GCCACATGTG GCTAGTGGCT
ACTATCTTGG ACAGTGCACT CCTAGAAGAC ACAGGGGACT AGCTTTACGA CAACAGGACA TAAAAGTTAG
GTTAGGGTTA AGATGGATAA ATCAGACTTG GTGCTGTGAG GCCTGGGCC CGCTCTCCCT GATGCTAGCC
CTCCCCTGAC TTGGACCATT AGGTCAAGTT CCTGTCTGCT TCGTCTCCGC AGAGCTGAGG AACTGCGTGT
GGAGTCAGCC CAGTCTGGAT GCACAGGAGG ATGCTGGCGG CACAGTGAGT GAGGCCCTGGT GCCAGAGCTG
TGCGGACCCC TTGTTGGCCA TGGAGCAGCA GGCCAGAGG CCCTCTCCCC AGCCCTGCTT GCCTGCCTCG
GAGAGGACAG AGGCCTAGGC CCACGGGGGA GGGTGTGGC AGACAGATGC CCTCCAGGCC CTGGGGCCCTC
CTTAACGGCC CCTTAACGAC ACGCGTGCCA AGGGTGGAGG CCTCATCATC ATTGCCITCA GCCAGGGGGT
GAGTGAGGGC AGCCCTGGG CTTACAGTCT CGGCCCAAC CTTGGCCAAG CTGCTATCTT CTCTTAGCCT
CTTCTGAAA ATGCTTATCT TCTGAAAAT GCTATGCTTT TTTGTTTGT TTTGTTTGT TTTGGTTTT
TTTGAGACAG AGTCTCACTC TGTCAACCAG GCTGGAGTAC AGTGGCATGA TCTCGGCTCA CTGCAACCTC
CATCTCCTGG GCTCAAGCAA TTCTCCTGCC TCAGCCTTCC GAGTAGCTAG GATGACAGGT GCATGCCACC
ATGCCAGCT AATTTTTGTA TTTTATAGTAG AGATGGGCTT TCACCATGTT GGCCAGGCTG GTCTCGAACT
CCCAACCTCA GGTGATCCAC CTGCTTCGGC CCCCCAAGT GCTGGGATTA TAGACGTGAG CCACCATGCC
CGGCCAATGC TCTGTCTTTT ACAGCACATT TAGACTGGTA GAAGACAAGT TTCTAATTTA AAAAAATTTT
TTTTGAGACT GGGCCTTGT TTTGTTGCCA GGTTGGCCTT GAACTCCTGG GTTCAAGTAA TCATCTCGC
TTATCCTCCT
```

GE100003, scramble sequence in pCas-Guide vector



[View online »](#)

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_001114](#), [NM_001286057](#)

UniProt ID: [P51828](#)

Synonyms: AC7

Summary: This gene encodes a membrane-bound adenylate cyclase that catalyses the formation of cyclic AMP from ATP and is inhibitable by calcium. The product of this gene is a member of the adenylyl cyclase class-4/guanylyl cyclase enzyme family that is characterized by the presence of twelve membrane-spanning domains in its sequences. Several transcript variants have been observed for this gene, but the full-length natures of only two have been determined so far. [provided by RefSeq, Oct 2013]

Product images:

