

## Product datasheet for **KN303310**

### Chrna7 Mouse 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:** Chrna7  
**Locus ID:** 11441  
**Components:** **KN303310G1**, Chrna7 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002), Target Sequence: CATCTGGCTGGCTCTGGCCG  
**KN303310G2**, Chrna7 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002), Target Sequence: GTTACCGTGCAGCAGCGCCG  
**KN303310D**, donor DNA containing left and right homologous arms and GFP-puro functional cassette.

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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 TACAGGCATC GTGGTGTAC GCTCGTCGTT TGGTATGGCT TCATTCAGCT CCGGTTCCCA ACGATC

**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\\_007390](#)

**UniProt ID:**

[P49582](#)

**Synonyms:**

Acra7; alpha7; nAChR

**Summary:**

After binding acetylcholine, the AChR responds by an extensive change in conformation that affects all subunits and leads to opening of an ion-conducting channel across the plasma membrane. The channel is blocked by alpha-bungarotoxin.[UniProtKB/Swiss-Prot Function]

Product images:

