

## Product datasheet for **KN215381BN**

### Neurexin 1 (NRXN1) Human Gene Knockout Kit (CRISPR)

#### Product data:

Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 mBFP-Neo donor, 1 scramble control
Donor DNA:	mBFP-Neo
Symbol:	Neurexin 1
Locus ID:	9378
Components:	<b>KN215381G1</b> , Neurexin 1 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002) <b>KN215381G2</b> , Neurexin 1 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002) <b>KN215381BND</b> , donor DNA containing left and right homologous arms and mBFP-Neo functional cassette. <b>GE100003</b> , 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:	<a href="#">NM_001135659</a> , <a href="#">NM_001320156</a> , <a href="#">NM_001320157</a> , <a href="#">NM_001330077</a> , <a href="#">NM_001330078</a> , <a href="#">NM_001330079</a> , <a href="#">NM_001330081</a> , <a href="#">NM_001330082</a> , <a href="#">NM_001330083</a> , <a href="#">NM_001330084</a> , <a href="#">NM_001330085</a> , <a href="#">NM_001330086</a> , <a href="#">NM_001330087</a> , <a href="#">NM_001330088</a> , <a href="#">NM_001330089</a> , <a href="#">NM_001330090</a> , <a href="#">NM_001330091</a> , <a href="#">NM_001330092</a> , <a href="#">NM_001330093</a> , <a href="#">NM_001330094</a> , <a href="#">NM_001330095</a> , <a href="#">NM_001330096</a> , <a href="#">NM_001330097</a> , <a href="#">NM_004801</a> , <a href="#">NM_138735</a>
UniProt ID:	<a href="#">Q9ULB1</a>
Synonyms:	Hs.22998; PTHSL2; SCZD17



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**Summary:**

This gene encodes a single-pass type I membrane protein that belongs to the neurexin family. Neurexins are cell-surface receptors that bind neuroligins to form Ca<sup>2+</sup>-dependent neurexin/neuroligin complexes at synapses in the central nervous system. This complex is required for efficient neurotransmission and is involved in the formation of synaptic contacts. Three members of this gene family have been studied in detail and are estimated to generate over 3,000 variants through the use of two alternative promoters (alpha and beta) and extensive alternative splicing in each family member. Recently, a third promoter (gamma) was identified for this gene in the 3' region. Mutations in this gene are associated with Pitt-Hopkins-like syndrome-2 and may contribute to susceptibility to schizophrenia. [provided by RefSeq, Aug 2016]

**Product images:**
