

# Product datasheet for KN201336BN

## NR2F6 Human Gene Knockout Kit (CRISPR)

## **Product data:**

#### OriGene Technologies, Inc.

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Product Type:	Knockout Kits (CRISPR)
Format:	2 gRNA vectors, 1 mBFP-Neo donor, 1 scramble control
Donor DNA:	mBFP-Neo
Symbol:	NR2F6
Locus ID:	2063
Components:	<ul> <li>KN201336G1, NR2F6 gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)</li> <li>KN201336G2, NR2F6 gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)</li> <li>KN201336BND, donor DNA containing left and right homologous arms and mBFP-Neo functional cassette.</li> <li>GE100003, scramble sequence in pCas-Guide vector</li> </ul>
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:	<u>NM 005234</u>
UniProt ID:	<u>P10588</u>
Synonyms:	EAR-2; EAR2; ERBAL2



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#### STATES ORIGENE NR2F6 Human Gene Knockout Kit (CRISPR) – KN201336BN

Transcription factor predominantly involved in transcriptional repression. Binds to Summary: promoter/enhancer response elements that contain the imperfect 5'-AGGTCA-3' direct or inverted repeats with various spacings which are also recognized by other nuclear hormone receptors. Involved in modulation of hormonal responses. Represses transcriptional activity of the lutropin-choriogonadotropic hormone receptor/LHCGR gene, the renin/REN gene and the oxytocin-neurophysin/OXT gene. Represses the triiodothyronine-dependent and independent transcriptional activity of the thyroid hormone receptor gene in a cell typespecific manner. The corepressing function towards thyroid hormone receptor beta/THRB involves at least in part the inhibition of THRB binding to triiodothyronine response elements (TREs) by NR2F6. Inhibits NFATC transcription factor DNA binding and subsequently its transcriptional activity. Acts as transcriptional repressor of IL-17 expression in Th-17 differentiated CD4(+) T cells and may be involved in induction and/or maintenance of peripheral immunological tolerance and autoimmunity. Involved in development of forebrain circadian clock; is required early in the development of the locus coeruleus (LC). [UniProtKB/Swiss-Prot Function]

### **Product images:**



Donor Vector Edited Chromosome

RFP, Luc, and mBFP will be under native gene promoter

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