**OriGene Technologies, Inc.**
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

# Product datasheet for KN219466RB

## Dopamine Transporter (SLC6A3) Human Gene Knockout Kit (CRISPR)

### Product data:

| | |
|---|---|
| **Product Type:** | Knockout Kits (CRISPR) |
| **Format:** | 2 gRNA vectors, 1 RFP-BSD donor, 1 scramble control |
| **Donor DNA:** | RFP-BSD |
| **Symbol:** | Dopamine Transporter |
| **Locus ID:** | 6531 |
| **Components:** | **KN219466G1**, Dopamine Transporter gRNA vector 1 in pCas-Guide CRISPR vector (GE100002)<br>**KN219466G2**, Dopamine Transporter gRNA vector 2 in pCas-Guide CRISPR vector (GE100002)<br>**KN219466RBD**, donor DNA containing left and right homologous arms and RFP-BSD functional cassette.<br>**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_001044 |
| **UniProt ID:** | Q01959 |
| **Synonyms:** | DAT; DAT1; PKDYS |
| **Summary:** | This gene encodes a dopamine transporter which is a member of the sodium- and chloride-dependent neurotransmitter transporter family. The 3' UTR of this gene contains a 40 bp tandem repeat, referred to as a variable number tandem repeat or VNTR, which can be present in 3 to 11 copies. Variation in the number of repeats is associated with idiopathic epilepsy, attention-deficit hyperactivity disorder, dependence on alcohol and cocaine, susceptibility to Parkinson disease and protection against nicotine dependence.[provided by RefSeq, Nov 2009] |

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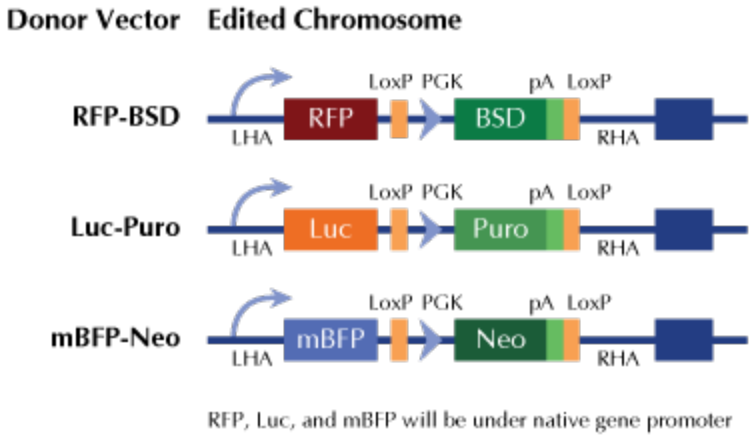
## Product images:




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