

## Product datasheet for **MR211613L4V**

### Xpo7 (NM\_023045) Mouse Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	Xpo7 (NM_023045) Mouse Tagged ORF Clone Lentiviral Particle
Symbol:	Xpo7
Synonyms:	4930506C02Rik; BB164534; exp7; mKIAA0745; Ranbp16
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
Tag:	mGFP
ACCN:	NM_023045
ORF Size:	3261 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(MR211613).
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	<a href="#">NM_023045.2</a>
RefSeq Size:	15118 bp
RefSeq ORF:	3264 bp
Locus ID:	65246
UniProt ID:	<a href="#">Q9EPK7</a>
Cytogenetics:	14 D2



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**Gene Summary:**

Mediates the nuclear export of proteins (cargos) with broad substrate specificity. In the nucleus binds cooperatively to its cargo and to the GTPase Ran in its active GTP-bound form. Docking of this trimeric complex to the nuclear pore complex (NPC) is mediated through binding to nucleoporins. Upon transit of a nuclear export complex into the cytoplasm, disassembling of the complex and hydrolysis of Ran-GTP to Ran-GDP (induced by RANBP1 and RANGAP1, respectively) cause release of the cargo from the export receptor. XPO7 then return to the nuclear compartment and mediate another round of transport. The directionality of nuclear export is thought to be conferred by an asymmetric distribution of the GTP- and GDP-bound forms of Ran between the cytoplasm and nucleus (By similarity). [UniProtKB/Swiss-Prot Function]