

## Product datasheet for **RC200469L2V**

### GRB2 (NM\_002086) Human Tagged ORF Clone Lentiviral Particle

#### Product data:

Product Type:	Lentiviral Particles
Product Name:	GRB2 (NM_002086) Human Tagged ORF Clone Lentiviral Particle
Symbol:	GRB2
Synonyms:	ASH; EGFRBP-GRB2; Grb3-3; MST084; MSTP084; NCKAP2
Mammalian Cell Selection:	None
Vector:	pLenti-C-mGFP (PS100071)
Tag:	mGFP
ACCN:	NM_002086
ORF Size:	651 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC200469).
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_002086.3</a>
RefSeq Size:	3303 bp
RefSeq ORF:	654 bp
Locus ID:	2885
UniProt ID:	<a href="#">P62993</a>
Cytogenetics:	17q25.1
Domains:	SH2, SH3
Protein Families:	Druggable Genome



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**Protein Pathways:** Acute myeloid leukemia, B cell receptor signaling pathway, Chemokine signaling pathway, Chronic myeloid leukemia, Colorectal cancer, Dorso-ventral axis formation, Endometrial cancer, ErbB signaling pathway, Fc epsilon RI signaling pathway, Focal adhesion, Gap junction, Glioma, GnRH signaling pathway, Insulin signaling pathway, Jak-STAT signaling pathway, MAPK signaling pathway, Natural killer cell mediated cytotoxicity, Neurotrophin signaling pathway, Non-small cell lung cancer, Pathways in cancer, Prostate cancer, Renal cell carcinoma, T cell receptor signaling pathway

**MW:** 25.2 kDa

**Gene Summary:** The protein encoded by this gene binds the epidermal growth factor receptor and contains one SH2 domain and two SH3 domains. Its two SH3 domains direct complex formation with proline-rich regions of other proteins, and its SH2 domain binds tyrosine phosphorylated sequences. This gene is similar to the Sem5 gene of *C.elegans*, which is involved in the signal transduction pathway. Two alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]