

Product datasheet for SC319370

GRB2 (NM_002086) Human Untagged Clone

Product data:

OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	GRB2 (NM_002086) Human Untagged Clone
Tag: Symbol:	Tag Free GRB2
Synonyms:	ASH; EGFRBP-GRB2; Grb3-3; MST084; MSTP084; NCKAP2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	<pre>>OriGene sequence for NM_002086.3 GACCGGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG</pre>
Restriction Sites:	Please inquire



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ACCN:	NM_002086
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	 Centrifuge at 5,000xg for 5min. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. Close the tube and incubate for 10 minutes at room temperature. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	<u>NM 002086.3, NP 002077.1</u>
RefSeq Size:	3317 bp
RefSeq ORF:	654 bp
Locus ID:	2885
UniProt ID:	<u>P62993</u>
Cytogenetics:	17q25.1
Domains:	SH2, SH3
Protein Families:	Druggable Genome
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

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receptor signaling pathway

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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]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer
isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic
sequence to make the sequence consistent with the reference genome assembly. The
genomic coordinates used for the transcript record were based on alignments.

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