

Product datasheet for **RC227703**

RASGRP3 (NM_001139488) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RASGRP3 (NM_001139488) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RASGRP3
Synonyms:	GRP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC227703 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

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 GCC**CGGATCGCC**

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Protein Sequence: >RC227703 protein sequence
Red=Cloning site Green=Tags(s)

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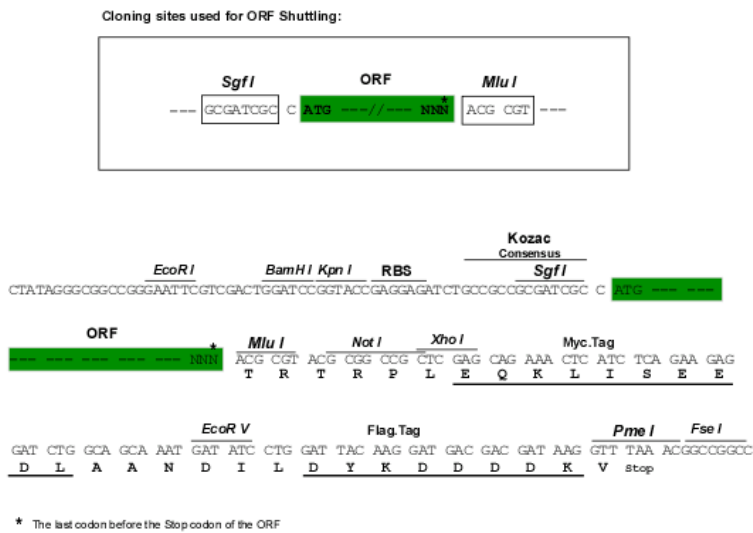
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Chromatograms: https://cdn.origene.com/chromatograms/mk6015_c09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



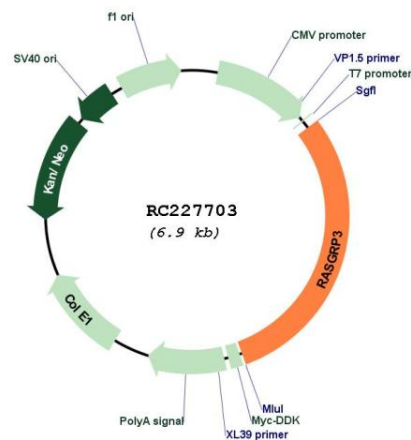
ACCN: NM_001139488

ORF Size: 2070 bp

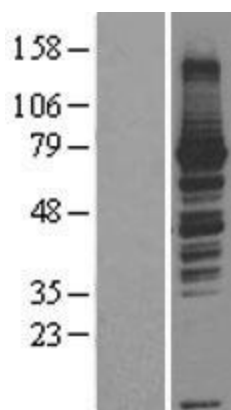
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

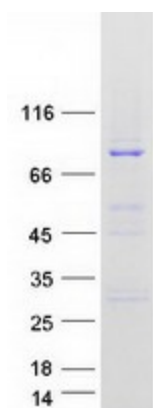
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none"> 1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom. 5. 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_001139488.2</u>
RefSeq Size:	4798 bp
RefSeq ORF:	2073 bp
Locus ID:	25780
UniProt ID:	<u>Q8IV61</u>
Cytogenetics:	2p22.3
Protein Pathways:	B cell receptor signaling pathway, MAPK signaling pathway
MW:	78.3 kDa
Gene Summary:	The protein encoded by this gene is a guanine nucleotide exchange factor that activates the oncogenes HRAS and RAP1A. Defects in this gene have been associated with systemic lupus erythematosus and several cancers. [provided by RefSeq, Mar 2017]

Product images:


Circular map for RC227703



Western blot validation of overexpression lysate (Cat# [LY427967]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC227703 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified RASGRP3 protein (Cat# [TP327703]). The protein was produced from HEK293T cells transfected with RASGRP3 cDNA clone (Cat# RC227703) using MegaTran 2.0 (Cat# [TT210002]).