

Product datasheet for **MR211926**

Plekhg2 (BC052436) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Plekhg2 (BC052436) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Plekhg2
Synonyms:	Clg, Cslg
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR211926 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGCC**

ATGGCTTCTCCAAGGGTCTGGCAGCTCCACTTCGTTGAGCACTGTGGGCTCCGAGGGGGACCATCTC
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Protein Sequence: >MR211926 protein sequence
Red=Cloning site Green=Tags(s)

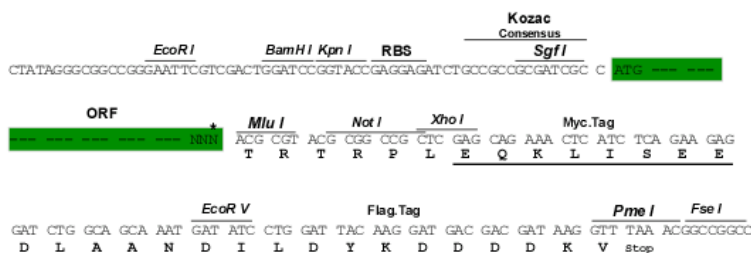
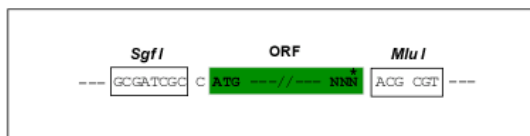
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LPAFGHVLVCELAFLNCTQESVPLGPAVLVQAATPLCIQGDDLSGQNLNVSDLSKQGHLSNSI PPPVP
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TSESLDTPPHSPSLSTRQLGPSAAALSYLAASYISQCSLARRQGGEGTVASQGHWSSTAPSRTAPS
PPPOPPAPPAPPARRLSYATTVSIOVGGGGRLRPAKAQVRLNHPALLAAPHGPAGVPSOGPGGS

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Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



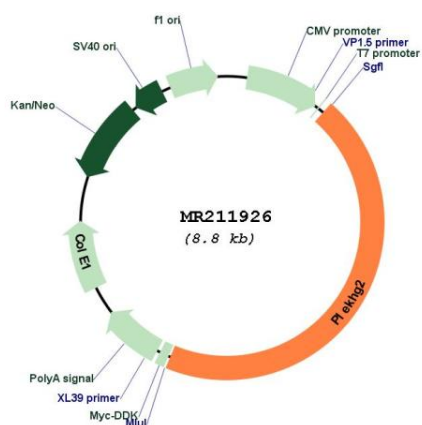
* The last codon before the Stop codon of the ORF

ACCN: BC052436

ORF Size: 3969 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:	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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	BC052436 , AAH52436
RefSeq Size:	4478 bp
RefSeq ORF:	3971 bp
Locus ID:	101497
Cytogenetics:	7 16.71 cM
MW:	141.9 kDa
Gene Summary:	May be a transforming oncogene with exchange activity for CDC42. May be a guanine-nucleotide exchange factor (GEF) for RAC1 and CDC42 (PubMed:11839748). Activated by the binding to subunits beta and gamma of the heterotrimeric guanine nucleotide-binding protein (G protein) (By similarity). Involved in the regulation of actin polymerization (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR211926