

Product datasheet for RC212259

MRAS (NM_012219) Human Tagged ORF Clone

Product data:

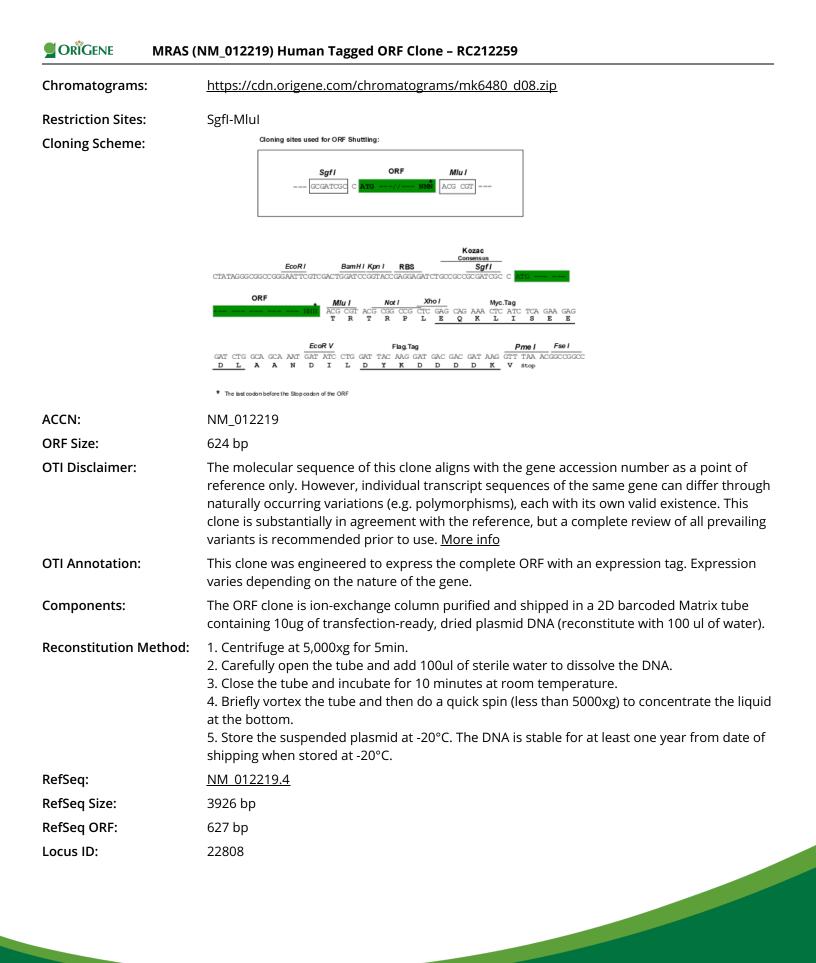
OriGene Technologies, Inc.

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Product Type:	Expression Plasmids
Product Name:	MRAS (NM_012219) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MRAS
Synonyms:	M-RAs; NS11; R-RAS3; RRAS3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>>RC212259 representing NM_012219 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGGCAACCAGCGCCGTCCCCAGTGACAACCTCCCCACATACAAGCTGGTGGTGGTGGGGGGATGGGGGGTG TGGGCAAAAGTGCCCTCACCATCCAGTTTTTCCAGAAGATCTTTGTGCCTGACTATGACCCCACCATTGA AGACTCCTACCTGAAACATACGGAGATTGACAATCAATGGGCCATCTTGGACGTTCTGGACACAGCTGGG CAGGAGGAATTCAGCGCCATGCGGGAGCAATACATGCGCACGGGGGATGGCTTCCTCATCGTCTACTCCG TCACTGACAAGGCCAGCTTTGAGCACGTGGACCGCTTCCACCAGCTTATCCTGCGCGTCAAAGACAGGGA GTCATTCCCGATGATCCTCGTGGCCAACAAGGTCGATTTGATGCACTTGAGGAAGATCACCAGGGAGCAA GGAAAAGAAATGGCGACCAAACACAATACTCCGTACATAGAAACCAGTGCCAAGGACCCACCTCCAATG TCGACAAAGCCTTCCATGACCTCGTTAGAGTAATTAGGCAACAGATTCCCGGAAAAAAACCAGAAAAGAAATGGCGACCACCTCGTTAGAGTAATTAGGCAACAGATTCCGGAAAAAAGCCAGAAGAA GAAAAACCAAATGGCGGGGGAGACCGGGCCACAGGCCACCCAC
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG GTTTAA
Protein Sequence:	<pre>>RC212259 representing NM_012219 Red=Cloning site Green=Tags(s)</pre>
	MATSAVPSDNLPTYKLVVVGDGGVGKSALTIQFFQKIFVPDYDPTIEDSYLKHTEIDNQWAILDVLDTAG QEEFSAMREQYMRTGDGFLIVYSVTDKASFEHVDRFHQLILRVKDRESFPMILVANKVDLMHLRKITREQ GKEMATKHNTPYIETSAKDPPLNVDKAFHDLVRVIRQQIPEKSQKKKKKKTKWRGDRATGTHKLQCVIL
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV



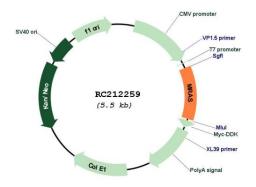
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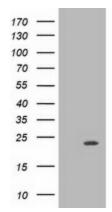
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GRIGENE MRAS (NM_012219) Human Tagged ORF Clone – RC212259
UniProt ID:	<u>014807</u>
Cytogenetics:	3q22.3
Domains:	ras, RAN, RAS, RHO, RAB
Protein Families:	Druggable Genome
Protein Pathways:	MAPK signaling pathway, Regulation of actin cytoskeleton, Tight junction
MW:	23.7 kDa
Gene Summary:	This gene encodes a member of the Ras family of small GTPases. These membrane- associated proteins function as signal transducers in multiple processes including cell growth and differentiation, and dysregulation of Ras signaling has been associated with many types of cancer. The encoded protein may play a role in the tumor necrosis factor-alpha and MAP kinase signaling pathways. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Nov 2011]

Product images:

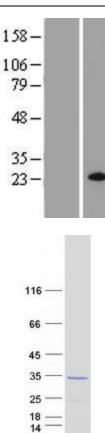


Circular map for RC212259



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY MRAS (Cat# RC212259, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-MRAS(Cat# [TA502864]). Positive lysates [LY415896] (100ug) and [LC415896] (20ug) can be purchased separately from OriGene.

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Western blot validation of overexpression lysate (Cat# [LY421269]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC218272] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified MRAS protein (Cat# [TP312259]). The protein was produced from HEK293T cells transfected with MRAS cDNA clone (Cat# RC212259) using MegaTran 2.0 (Cat# [TT210002]).

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