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Product datasheet for MG207310

Rarg (BC012923) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rarg (BC012923) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rarg
Synonyms:	RARD, Nr1b3, RARgamma2, MGC11555, MGC18523
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

ORF Nucleotide Sequence:

>MG207310 representing BC012923
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCACCAATAAGGAGAGACTCTTTGCGCCCGGTGCCCTGGGGCCTGGATCTGGTTACCCAGGAGCAG
GCTTCCCATTCGCCTTCCCAGGTGCACTCAGAGGGTCGCCACCATTTGAGATGCTGAGCCCTAGCTTCCG
GGGCCTGGGCCAGCCTGACCTCCCCAAGGAGATGGCTTCTCTCTCGGTGGAGACACAGAGCACCAGCTCG
GAGGAGATGGTACCCAGCTCTCCCTCACCCCCACCACCTCCTCGGGTCTATAAGCCATGCTTTGTATGCA
ATGACAAGTCTTCTGGCTACCACTATGGGGTCAGCTCCTGTGAAGGCTGCAAGGGCTTCTTCAGACGCAG
CATTCAGAAAAACATGGTGTATACATGTCACCGTGACAAAAACTGTATCATCAACAAGGTCACCAGAAAT
CGATGCCAGTACTGCAGGCTACAAAAGTGTTTCGAAGTGGGCATGTCCAAGGAAGCTGTAAGGAACGATC
GAAACAAGAAGAAAAAGGAGGTAAAAGAGGAGGGCTCGCCCGACAGCTATGAACTGAGTCCACAGTTAGA
GGAACTCATCACCAAGGTCAGCAAAGCCCACCAGGAGACTTTTCCCTCACTCTGCCAGCTGGGCAAGTAC
ACCACGAACTCCAGTGCAGATCACCGGGTGCAGCTGGACCTGGGGCTGTGGGACAAGTTCAGCGAGCTGG
CCACCAAATGCATCATCAAGATTGTGGAGTTTGCGAAGCGGCTGCCTGGTTTTACAGGGCTCAGCATTGC
CGACCAGATCACGCTGCTCAAGGCTGCTTGTCTGGACATCCTAATGCTGCGGATCTGTACAAGGTATACC
CCAGAGCAGGACACTATGACATTCTCGGATGGGCTGACCCTGAACCGAACCCAGATGCACAATGCTGGCT
TTGGGCCCCTTACAGACCTCGTCTTTGCCTTTGCCGGGCAGCTGCTGCCCCTGGAGATGGATGACACCGA
GACTGGGCTACTTAGTGCTATCTGCCTCATCTGTGGAGACCGAATGGACCTGGAAGAGCCCGAGAAGGTG
GACAAGCTGCAGGAGCCCCTGCTGGAAGCCCTGAGGCTCTATGCCCGGCGACGGAGACCCAGCCAACCCT
ACATGTTCCCAAGGATGCTGATGAAAATCACCGACCTCCGGGGCATCAGCACTAAGGGAGCAGAAAGGGC
TATAACCCTGAAGATGGAGATTCCAGGCCCGATGCCACCCCTGATCCGAGAGATGCTGGAGAACCCGGAG
ATGTTTGAGGACGACTCCTCGAAGCCTGGCCCCCACCCCAAGGCTTCCAGTGAGGACGAAGCTCCAGGGG
GCCAGGGCAAAAGGGGCCAAAGTCCCCAACCTGACCAGGGGCCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

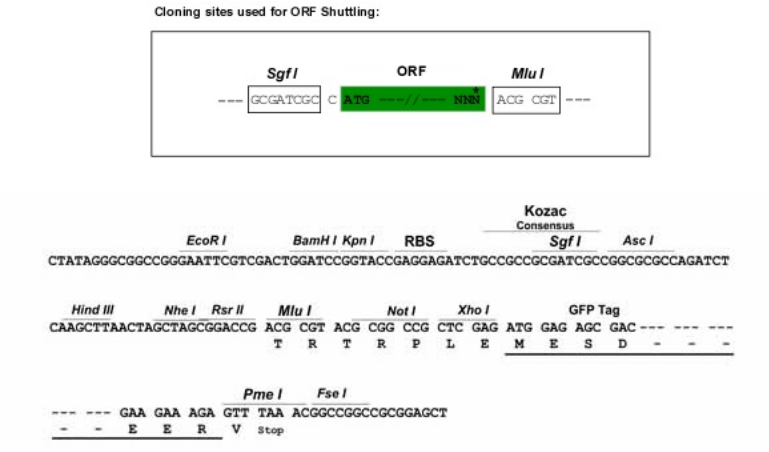
>MG207310 representing BC012923
Red=Cloning site Green=Tags(s)

MATNKERLFAPGALGPGSGYPGAGFPFAFPGALRGSPPFEMLSPSFRGLGQPDLPKEMASLSVETQSTSS
EEMVPSSPSPPPPPRVYKPCFVCNDKSSGYHYGVSSCEGCKGFFRRSIQKNMVYTCHRDKNCIINKVTRN
RCQYCRLQKCFEVGMSKEAVRNDRNKKKKEVKEEGSPDSYELSPQLEELITKVSKAHQETFPSLCQLGKY
TTNSSADHRVQLDLGLWDKFSELATKCIIKIVEFAKRLPGFTGLSIADQITLLKAACLDILMLRICTRYT
PEQDTMTFSDGLTLNRTQMHNAGFGPLTDLVFAFAGQLLPLEMDDTETGLLSAICLICGDRMDLEEPEKV
DKLQEPLLEALRLYARRRRPSQPYMFPRMLMKITDLRGISTKGAERAITLKMEIPGPMPPLIREMLENPE
MFEDDSSKPGPHPKASSEDEAPGGQGKRGQSPQPDQGP

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

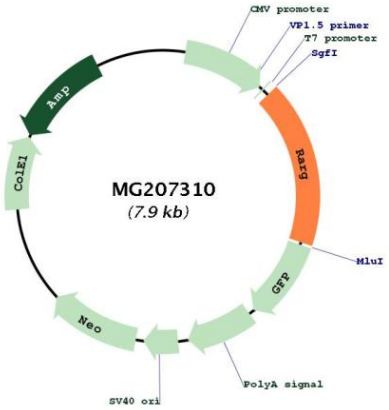
Cloning Scheme:



ACCN:	BC012923
ORF Size:	1376 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.
RefSeq:	BC012923, AAH12923
RefSeq Size:	2381 bp
RefSeq ORF:	1376 bp
Locus ID:	19411
Cytogenetics:	15 57.4 cM

Gene Summary: Receptor for retinoic acid. Retinoic acid receptors bind as heterodimers to their target response elements in response to their ligands, all-trans or 9-cis retinoic acid, and regulate gene expression in various biological processes. The RAR/RXR heterodimers bind to the retinoic acid response elements (RARE) composed of tandem 5'-AGGTCA-3' sites known as DR1-DR5. In the absence of ligand, acts mainly as an activator of gene expression due to weak binding to corepressors (By similarity). Required for limb bud development. In concert with RARA or RARB, required for skeletal growth, matrix homeostasis and growth plate function. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG207310