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Product datasheet for RC211150

GAS8 (NM_001481) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GAS8 (NM_001481) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GAS8
Synonyms:	CILD33; DRC4; GAS11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC211150 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCACCGAAAAAGAAAGGGAAGAAAGGCAAAGCCAAAGGCACCCCGATTGTCGATGGGCTCGCTCCAG
AGGACATGAGCAAGGAGCAGGTGGAGGAGCATGTCAGCCGCATCCGGGAGGAGCTGGACCGCGAGCGGGA
GGAACGAAACTACTTCCAGCTGGAGCGGGACAAGATCCACACCTTCTGGGAGATCACACGGAGGCAGCTG
GAGGAGAAGAAGGCTGAGCTGCGGAACAAAGACCGGGAGATGGAAGAAGCCGAGGAGAGGCACCAGGTGG
AGATCAAGGTGTACAAGCAGAAAGTGAAGCACCTGCTATATGAGCACCAGAACAACCTGACAGAGATGAA
GGCTGAGGGCACTGTAGTCATGAAGCTGGCACAGAAAGAGCACCGCATACAGGAGAGTGTGCTGCGCAAG
GACATGCGGGCACTGAAGGTGGAGCTCAAGGAGCAGGAGCTGGCCAGTGAGGTGGTGGTGAAGAACCTGC
GGCTGAAACACACCGAGGAGATCACCAGGATGCGGAATGATTTTGAGAGGCAAGTTCGAGAAATTGAGGC
CAAGTATGATAAGAAGATGAAGATGCTGAGGGACGAACTCGACTTGCGGAGAAAGACTGAGCTCCACGAA
GTGGAGGAGAGGAAGAATGGCCAGATCCACACGCTGATGCAGCGCCACGAGGAGGCCTTCACCGACATTA
AGAACTACTACAACGACATCACCCTCAACAACCTGGCCCTCATCAACTCCCTCAAGGAGCAGATGGAGGA
CATGCGGAAGAAGGAGGACCACCTGGAGAGGGAGATGGCAGAGGTGTCTGGGCAGAACAAGCGCCTGGCA
GACCCTCTCCAGAAGGCTCGGGAGGAGATGAGCGAGATGCAGAAACAGCTCGCAAACTACGAGAGGGACA
AGCAGATCCTGCTTTGCACAAAAGCCCGTTTGAAAGTCAGGGAGAAAGAGCTGAAAGACCTGCAGTGGGA
GCATGAAGTGTTAGAGCAGCGATTCACCAAGGTGCAGCAGGAGCGGGACGAGCTCTATCGGAAGTTCACC
GCAGCCATCCAGGAGGTGCAGCAGAAGACAGGGTTCAAGAACCTCGTGCTAGAACGCAAGCTGCAGGCTC
TGAGCGCCGCTGTGGAGAAGAAGGAGGTGCAGTTCAACGAGGTCCTGGCTGCCTCTAACCTGGACCCTGC
AGCCCTGACGCTGGTGTCCCGCAAGCTGGAGGATGTTCTTGAGTCGAAGAACAGCACCATCAAGGACCTG
CAGTATGAGCTGGCCCAGGTCTGTAAGGCCCATAACGACCTGCTGCGCACGTATGAGGCAAAGCTGCTGG
CCTTCGGGATCCCTCTGGACAACGTGGGCTTCAAGCCCTTGGAAACAGCTGTGATCGGACAGACACTGGG
CCAGGGCCCCGCGGGACTGGTGGGCACCCCGACG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC211150 protein sequence
Red=Cloning site Green=Tags(s)

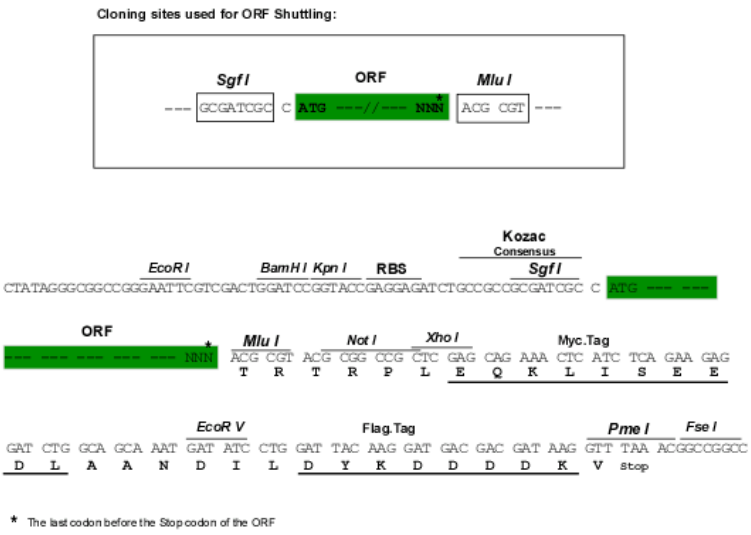
MAPKKKGKKGKAKGTPIVDGLAPEDMSKEQVEEHVSRIREELDRERFERNYFQLERDKIHTFWEITRRQL
EEKKAELRNKDREMEEAEERHQVEIKVYKQKVKHLLYEHQNNLTEMKAEGTVVMKLAQKEHRIQESVLRK
DMRALKVELKEQELASEVVVKNLRLKHTEEITRMRNDFERQVREIEAKYDKKMKMLRDELDLRRKTELHE
VEERKNGQIHTLMQRHEEAFTDIKNYYNDITLNNLALINSLKEQMEDMRKKEDHLEREMAEVSGQNKRLA
DPLQKAREEMSEMQKQLANYERDKQILLCTKARLKVREKELKDLQWEHEVLEQRFTKVQQERDELYRKFT
AAIQEVQQKTGFKNLVLERKLQALSAAVEKKEVQFNEVLAASNLDPAALTLVSRKLEDVLESKNSTIKDL
QYELAQVCKAHNDLLRTYEAKLLAFGIPLDNVGFKPLETAVIGQTLGQGPAGLVGTPT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6373_a09.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001481

ORF Size: 1434 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: NM_001481.3

RefSeq Size: 3185 bp

RefSeq ORF: 1437 bp

Locus ID: 2622

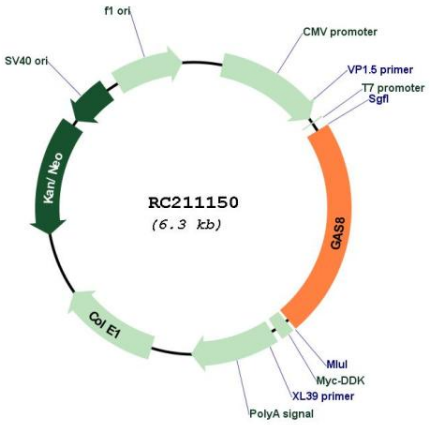
UniProt ID: O95995

Cytogenetics: 16q24.3

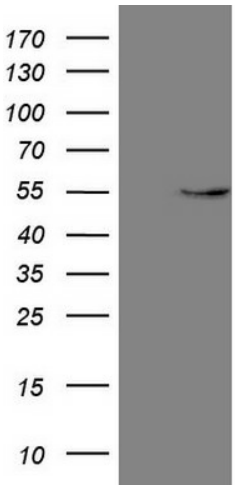
MW: 56.4 kDa

Gene Summary: This gene includes 11 exons spanning 25 kb and maps to a region of chromosome 16 that is sometimes deleted in breast and prostrate cancer. The second intron contains an apparently intronless gene, C16orf3, that is transcribed in the opposite orientation. This gene is a putative tumor suppressor gene. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2013]

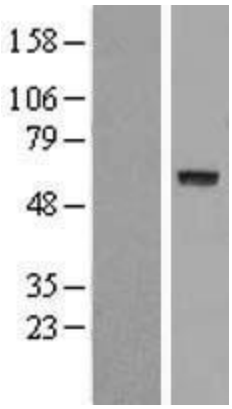
Product images:



Circular map for RC211150



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY GAS8 (Cat# RC211150, 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-GAS8 (Cat# [TA808629])(1:2000). Positive lysates [LY419922] (100ug) and [LC419922] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY419922]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC211150 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).