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Product datasheet for RC210225

GPA33 (NM_005814) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GPA33 (NM_005814) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GPA33
Synonyms:	A33
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC210225 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGTGGGGAAGATGTGGCCTGTGTTGTGGACACTCTGTGCAGTCAGGGTGACCGTCGATGCCATCTCTG
TGGAAACTCCGCAGGACGTTCTTCGGGCTTCGCAGGGAAAGAGTGTCACCCTGCCCTGCACCTACCACAC
TTCCACCTCCAGTCGAGAGGGACTTATTCAATGGGATAAGCTCCTCCTCACTCATACGGAAAGGGTGGTC
ATCTGGCCGTTTTCAAACAAAAACTACATCCATGGTGAGCTTTATAAGAATCGCGTCAGCATATCCAACA
ATGCTGAGCAGTCCGATGCCTCCATCACCATTGATCAGCTGACCATGGCTGACAACGGCACCTACGAGTG
TTCTGTCTCGCTGATGTCAGACCTGGAGGGCAACACCAAGTCACGTGTCCGCCTGTTGGTCCTCGTGCCA
CCCTCCAAACCAGAATGCGGCATCGAGGGAGAGACCATAATTGGGAACAACATCCAGCTGACCTGCCAAT
CAAAGGAGGGCTCACCAACCCCTCAGTACAGCTGGAAGAGGTACAACATCCTGAATCAGGAGCAGCCCCT
GGCCCAGCCAGCCTCAGGTCAGCCTGTCTCCCTGAAGAATATCTCCACAGACACATCGGGTTACTACATC
TGTACCTCCAGCAATGAGGAGGGGACGCAGTTCTGCAACATCACGGTGGCCGTCAGATCTCCCTCCATGA
ACGTGGCCCTGTATGTGGGCATCGCGGTGGGCGTGGTTGCAGCCCTCATTATCATTGGCATCATCATCTA
CTGCTGCTGCTGCCGAGGGAAGGACGACAACACTGAAGACAAGGAGGATGCAAGGCCGAACCGGGAAGCC
TATGAGGAGCCACCAGAGCAGCTAAGAGAACTTTCCAGAGAGAGGGAGGAGGAGGATGACTACAGGCAAG
AAGAGCAGAGGAGCACTGGGCGTGAATCCCCGGACCACCTCGACCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

>RC210225 protein sequence
Red=Cloning site Green=Tags(s)

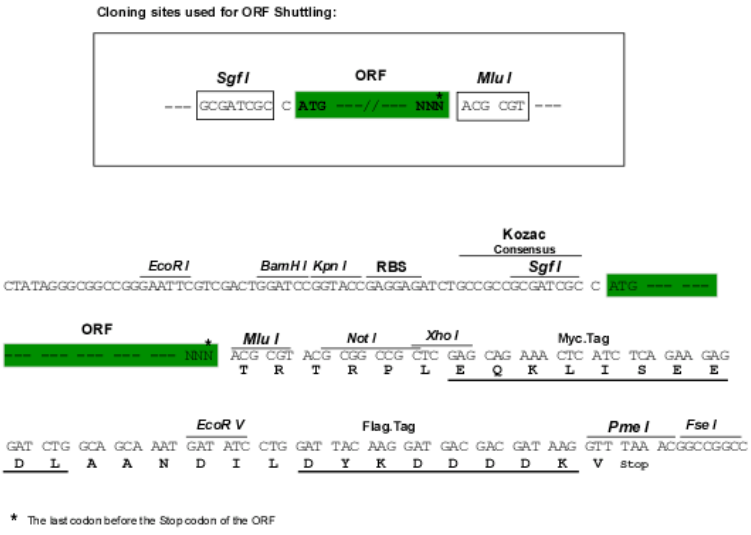
MVGKMWPVLWTLCAVRVTVDAISVETPQDVLRASQGKSVTLPCTYHTSTSSREGLIQWDKLLLTHTERVV
IWPFSNKNYIHGELYKNRVSISNNAEQSDASITIDQLTMADNGTYECSVSLMSDLEGNTKSRVRLLVLVP
PSKPECGIEGETIIGNNIQLTCQSKEGSPTPQYSWKRYNILNQEQPLAQPASGQPVSLKNISTDTSGYYI
CTSSNEEGTQFCNITVAVRSPSMNVALYVGIAVGVVAALIIIGIIIYCCCCRGKDDNTEDKEDARPNREA
YEEPPEQLRELSREREEEDDYRQEEQRSTGRESPDHLDQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6268_b10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005814

ORF Size: 957 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_005814.3

RefSeq Size: 2793 bp

RefSeq ORF: 960 bp

Locus ID: 10223

UniProt ID: Q99795

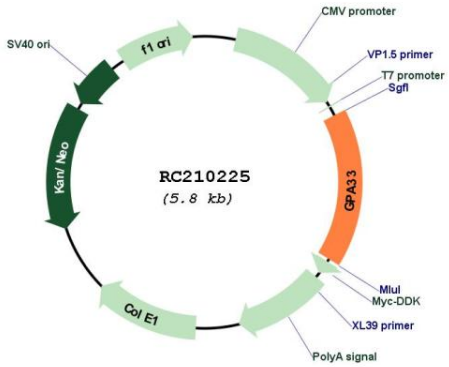
Cytogenetics: 1q24.1

Protein Families: Druggable Genome, Transmembrane

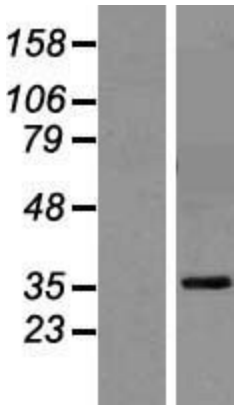
MW: 35.6 kDa

Gene Summary: The glycoprotein encoded by this gene is a cell surface antigen that is expressed in greater than 95% of human colon cancers. The open reading frame encodes a 319-amino acid polypeptide having a putative secretory signal sequence and 3 potential glycosylation sites. The predicted mature protein has a 213-amino acid extracellular region, a single transmembrane domain, and a 62-amino acid intracellular tail. The sequence of the extracellular region contains 2 domains characteristic of the CD2 subgroup of the immunoglobulin (Ig) superfamily. [provided by RefSeq, Jul 2008]

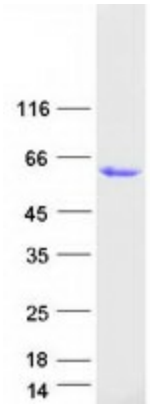
Product images:



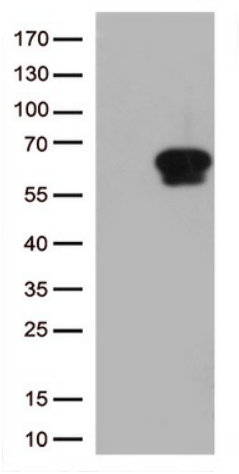
Circular map for RC210225



Western blot validation of overexpression lysate (Cat# [LY417048]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210225 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified GPA33 protein (Cat# [TP310225]). The protein was produced from HEK293T cells transfected with GPA33 cDNA clone (Cat# RC210225) using MegaTran 2.0 (Cat# [TT210002]).



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY GPA33 (Cat# RC210225, 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-GPA33 antibody (Cat# [UM800173])(1:1000).