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Product datasheet for RC201923

PLAAT4 (NM_004585) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PLAAT4 (NM_004585) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PLAAT4
Synonyms:	HRASLS4; HRSL4; PLA1/2-3; PLAAT-4; RARRES3; RIG1; TIG3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC201923 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTTCGCCACACCAAGAGCCCAAACCTGGAGACCTGATTGAGATTTTCCGCCTTGGCTATGAGCACT
GGGCCCTGTATATAGGAGATGGCTACGTGATCCATCTGGCTCCTCCAAGTGAGTACCCCGGGGCTGGCTC
CTCCAGTGTCTTCTCAGTCCTGAGCAACAGTGCAGAGGTGAAACGGGAGCGCCTGGAAGATGTGGTGGGA
GGCTGTTGCTATCGGGTCAACAACAGCTTGGACCATGAGTACCAACCACGGCCCGTGGAGGTGATCATCA
GTTCTGCGAAGGAGATGGTTGGTCAGAAGATGAAGTACAGTATTGTGAGCAGGAACTGTGAGCACTTTGT
CACCCAGCTGAGATATGGCAAGTCCCGCTGTAAACAGGTGGAAAAGGCCAAGGTTGAAGTCGGTGTGGCC
ACGGCGCTTGGAATCCTGGTTGTTGCTGGATGCTCTTTTGCGATTAGGAGATACCAAAAAAAAGCGACAG
CC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC201923 protein sequence
Red=Cloning site Green=Tags(s)

MASPHQEPKPGDLIEIFRLGYEHWALYIGDGYVIHLAPPSEYPGAGSSSVFSVLSNSAEVKRERLEDVVG
GCCYRVNNSLDHEYQPRPVEVIISSAKEMVGQKMKYSIVSRNCEHFVTQLRYGKSRCKQVEKAKVEVGVA
TALGILVVAGCSFAIRRYQKKATA

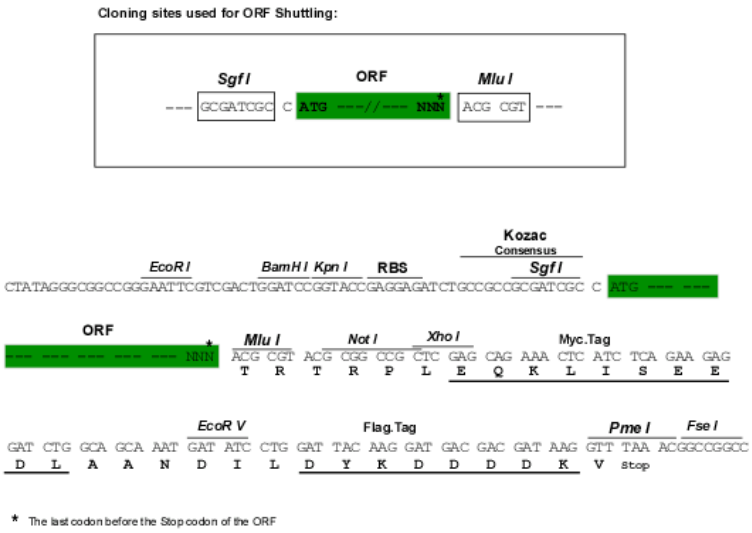
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6142_d08.zip

View online »

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_004585

ORF Size: 492 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_004585.5

RefSeq Size: 779 bp

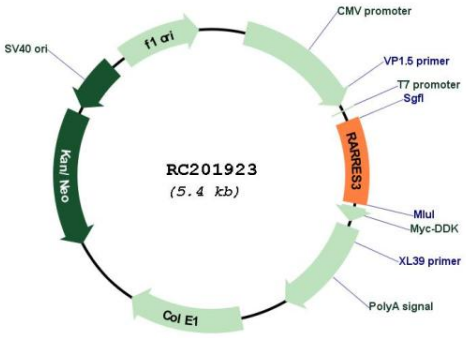
RefSeq ORF: 495 bp

Locus ID: 5920

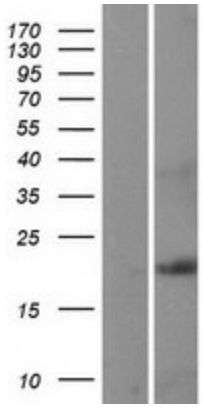
UniProt ID: Q9UL19

Cytogenetics:	11q12.3
Domains:	NC
Protein Families:	Druggable Genome, Nuclear Hormone Receptor, Transmembrane
MW:	18.2 kDa
Gene Summary:	Retinoids exert biologic effects such as potent growth inhibitory and cell differentiation activities and are used in the treatment of hyperproliferative dermatological diseases. These effects are mediated by specific nuclear receptor proteins that are members of the steroid and thyroid hormone receptor superfamily of transcriptional regulators. RARRES1, RARRES2, and RARRES3 are genes whose expression is upregulated by the synthetic retinoid tazarotene. RARRES3 is thought act as a tumor suppressor or growth regulator. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC201923



Western blot validation of overexpression lysate (Cat# [LY401452]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC201923 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).