

Product datasheet for **RC238547**

PRAME (NM_001291717) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PRAME (NM_001291717) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	PRAME
Synonyms:	CT130; MAPE; OIP-4; OIP4
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC238547 representing NM_001291717
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGTGTGTGGACAAGCCACGGAGACTTGTGGAGCTGGCAGGGCAGAGCCTGTGAAGGATGAGGCC
 TGGCATTGCCGCCCTGGAGTTGCTGCCAGGGAGCTTCCCGCCACTTTCATGGCAGCCTTTGACGG
 GAGACACAGCCAGACCCTGAAGGCAATGGTGCAGGCCTGGCCCTTACCTGCCTCCCTCTGGGAGTGCTG
 ATGAAGGGACAACATCTTACCTGGAGACCTTCAAAGCTGTGCTTGATGGACTTGATGTGCTCCTTGCCC
 AGGAGGTTGCCCCAGGAGGTGGAACTTCAAGTGTGGATTTACGGAAGAACTCTCATCAGGACTTCTG
 GACTGTATGGTCTGAAACAGGGCCAGTCTGTACTCATTCCAGAGCCAGAAGCAGCTCAGCCCATGACA
 AAGAAGCGAAAAGTAGATGGTTTGGACACAGAGGCAGAGCAGCCCTTTCATCCAGTAGAGGTGCTCGTAG
 ACCTGTTCTCAAGGAAGGTGCCTGTGATGAATGTTCTCCTACCTCATTGAGAAAGTGAAGCGAAAGAA
 AAATGTACTACGCTGTGCTGTAAGAAGCTGAAGATTTTGAATGCCCATGCAGGATATCAAGATGATC
 CTGAAAATGGTGCAGCTGGACTCTATTGAAGATTTGGAAGTGAAGTGTACTGACCTGGAAGCTACCCACCTGG
 CGAAATTTTCTCCTTACCTGGGCCAGATGATTAATCTGCGTAGACTCCTCCTCTCCACATCCATGCATC
 TTCTACATTTCCCGGAGAAGGAAGAGCAGTATATCGCCAGTTACCTCTCAGTTCCTCAGTCTGCAG
 TGCTGCAGGCTCTATGTGGACTCTTATTTTTCTTAGAGGCCGCCTGGATCAGTTGCTCAGGCACG
 TGATGAACCCCTTGAAACCCCTCAATAACTAAGTGCAGGCTTTCGGAAGGGATGTGATGCATCTGTC
 CCAGAGTCCCAGCGTCAGTCAGTAAGTGTCTGAGTCTAAGTGGGGTCTGCTGACCGATGAAGTCCC
 GAGCCCTCCAAGCTCTGCTGGAGAGACCTCTGCCACCCTCCAGGACCTGGTCTTTGATGAGTGGGA
 TCACGGATGATCAGCTCCTTGCCTCTGCCTTCCCTGAGCCACTGCTCCAGCTTACGACCTTAAGCTT
 CTACGGGAATTCATCTCCATATCTGCCCTGCAGAGTCTCCTGCAGCACCTCATCGGGCTGAGCAATCTG
 ACCCACGTGCTGTATCCTGTCCCCTGGAGAGTTATGAGGACATCCATGGTACCCTCCACCTGGAGAGGC
 TTGCCTATCTGCATGCCAGGCTCAGGGAGTTGCTGTGAGTTGGGGCGGCCAGCATGGTCTGGCTTAG
 TGCCAACCCCTGTCTACTGTGGGGACAGAACCTTCTATGACCCGGAGCCCATCTGTGCCCTGTTTC
 ATGCCTAAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238547 representing NM_001291717
 Red=Cloning site Green=Tags(s)

MSVWTSRRLVELAGQSLKDEALIAALELLPRELFPPLFMAAFDGRHSQTLKAMVQAWPFTCLPLGVL
 MKGQHLHLETFAVLDGLDVLLAQEVRPRRWKLVLDLRKNSHQDFWTVWVSGNRASLYSFPPEAAQPMT
 KKRKVDGLSTEAQPFIPVEVLVDLFLKEGACDELFSYLIEKVKRKNLRLCCKLKIIFAMPMQDIKMI
 LKMVQLDSIEDLEVTCTWKLPTLAKFSPYLQMINLRLLLSHIHASSYISPEKEEQYIAQFTSQFLSLQ
 CLQALYVDSLFFLRGRLDQLLRHVMNPLETLSITNCRLESEGDMHLSQSPSVSLSVLSLQVGLTDVSP
 EPLQALLERASATLQDLVFDECGITDDQLLALLPSLSHCSQLTTLTFYGNISISALQSLQLHLSNL
 THVLYPVPLESYEDIHGTLHLERLAYLHARLRELLCELGRPSMWLSANPCPHCGDRTFYDPEPILCPCF
 MPN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

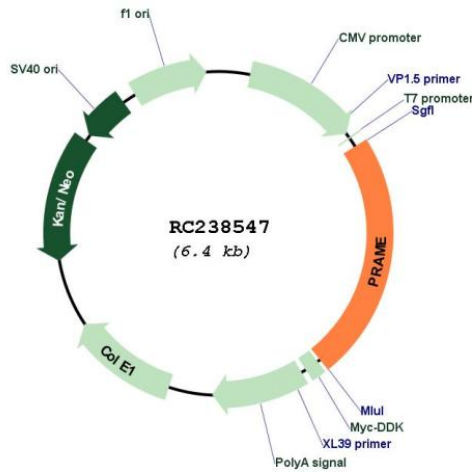
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001291717

ORF Size: 1479 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_001291717.2](#)

RefSeq Size: 2316 bp

RefSeq ORF: 1482 bp

Locus ID: 23532

UniProt ID: [P78395](#)

Cytogenetics: 22q11.22

MW: 56.3 kDa

Gene Summary: This gene encodes an antigen that is preferentially expressed in human melanomas and that is recognized by cytolytic T lymphocytes. It is not expressed in normal tissues, except testis. The encoded protein acts as a repressor of retinoic acid receptor, and likely confers a growth advantage to cancer cells via this function. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Apr 2014]