

Product datasheet for **RR208326**

Vars (NM_053292) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Vars (NM_053292) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Vars
Synonyms:	Bat6; G7a; TrsVal; Vars2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR208326 representing NM_053292 Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence:

>RR208326 representing NM_053292
 Red=Cloning site Green=Tags(s)

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QKML
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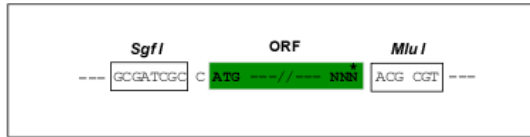
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



CTATAGGGCGGCGGGAAATTCGTCGACTGGATCCGGTACCAGGAGAGATCTGCCGCGCGATCGC C

EcoRI *BamHI KpnI* *RBS* *Kozac Consensus* *SgfI*

ORF

MluI *NotI* *XhoI* *Myc.Tag*

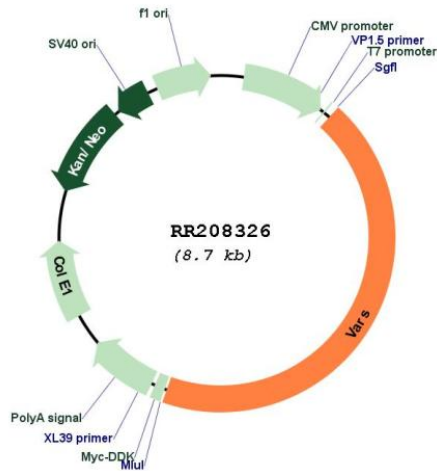
ACG CGT ACG CCG CCG CTC GAG CAG AAA CTC ATC TCA GAA GAG
 T R T R P L E Q K L I S E E

EcoRV *Flag.Tag* *PmeI* *FseI*

GAT CTG GCA GCA AAT GAT ATC CTG GAT TAC AAG GAT GAC GAC GAT AAG GTT TAA ACGGCCGGCC
 D L A A N D I L D Y K D D D D K V Stop

* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_053292

ORF Size: 3792 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_053292.1](#), [NP_445744.1](#)

RefSeq Size: 3980 bp

RefSeq ORF: 3795 bp

Locus ID: 25009

UniProt ID: [Q04462](#)

Cytogenetics: 20p12

MW: 140.4 kDa

Gene Summary: catalyze the aminoacylation of tRNA by valine [RGD, Feb 2006]