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Product datasheet for RR210315

Esam (NM_001004245) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Esam (NM_001004245) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Esam
Synonyms:	MGC94065
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

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>RR210315 representing NM_001004245
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGATTCTTCCGGCCAGAACCCCCGAGACCAGCTTACTGCGGGTTTTGTTCCTGGGACTGAGTACCCTTG
CTGCCTTCTCACTGGCTCAGATGGAGCTGCACGTGCCCCCTGGCCTCAACAAATTGGAGGCGGTAGAGGG
GGAAGAAGTGGTGCTCCCCGCCTGGTACACGATGGCACGGGAGGAGTCTTCATCCCACCCCTGGGAGGCG
CCCTTCCTGATTTGGTTCTTGGAACAAGAAGGGAAGGAACCAAAGCAGGTCTTGTCTTATTTCAAGGGTT
CCCTGTCAAATAAACCTGGAGTAACCCTGGTCCACTCCATCTCCACACGGAATGTGTCCCTGCGCCTGGA
TGCCCTCCAGGAGGGAGACTCTGGGACCTACCGCTGTTCTGTCAATGCGTACGACAGTGACGGCAAAAAT
ATAGGCCACAGCATCAAAACGATAGAGCTCAAAGTGCTGGTTCCTCCAGCTCCTCCATCCTGTAGTTTTC
AGGGTGTACCCTATGTGGGGACCAATGTGACTCTGAACTGCAAGTCCCCAAGGAGTAAACCTACTGCTCA
ATACCAGTGGGAGAGGCTGGCGCCATCCTCCCAGGTCTTCTTTGGACCAGCCTTAGATACCGTCCGTGGA
TCTTTGAAGCTCACCAACATTTCCACTGCCATGTCTGGAGTCTATGTCTGCAAGGCCCAAAACAGAGTGG
GCTTTGCCCAGTGCAATGTGACCTTGGACGTGATGACAGGGTCCAAGGCTGCTGTGGTCGCTGGAGCAGT
GGTGGGCACTTTTGTTGGGTTGGTGCTGATAGCTGGTCTGGTCCTGTTGTACCAACGCCGCAGCAAGACC
CTGGAAGAGCTGGCCAACGATATCAAGGAAGATGCCATTGCTCCCCGGACCTTGCCTTGGACCAAAGGCT
CAGACACAATCTCCAAGAATGGGACACTTTCCTCAGTCACCTCAGCACGAGCTCTGCGGCCACCCAAAGC
TGCTCCTCCAAGACCTGGCACGTTTACTCCTACACCCAGTGTCTCTAGCCAGGCCCTGTCCTCACCCAGA
CTGCCTAGGACGGATGGGCCGCCACCTCAGGCAGTGTCCCTGACCCCAGGTGGGGTTTCTTCTTCTACTC
TGAACCGCATGGGTGCCGTGCCCGTGATGGTACCTGCACAGAGTCAGGCCGGGTCTCTCGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
```

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Protein Sequence:

```
>RR210315 representing NM_001004245
Red=Cloning site Green=Tags(s)

MILPARTPETSLLRVLFLGLSTLAAFSLAQMELHVPPGLNKLEAVEGEEVVLPAWYTMAREESSSHPWEA
PFLIWFLEQEGKEPKQVLSYFKGSLSNKPGVTLVHSISTRNVSLRLDALQEGDSGTYRCSVNAYDSDGKN
IGHSIKTIELKVLVPPAPPSCSFQGVPYVGTNVTLNCKSPRSKPTAQYQWERLAPSSQVFFGPALDTVRG
SLKLTNISTAMSGVYVCKAQNRVGFAQCNVTLDVMTGSKAAVVAGAVVGTFVGLVLIAGLVLLYQRRSKT
LEELANDIKEDAIAPRTLPWTKGSDTISKNGTLSSVTSARALRPPKAAPPRPGTFTPTPSVSSQALSSPR
LPRTDGPPPQAVSLTPGGVSSSTLNRMGAVPVMVPAQSQAGSLV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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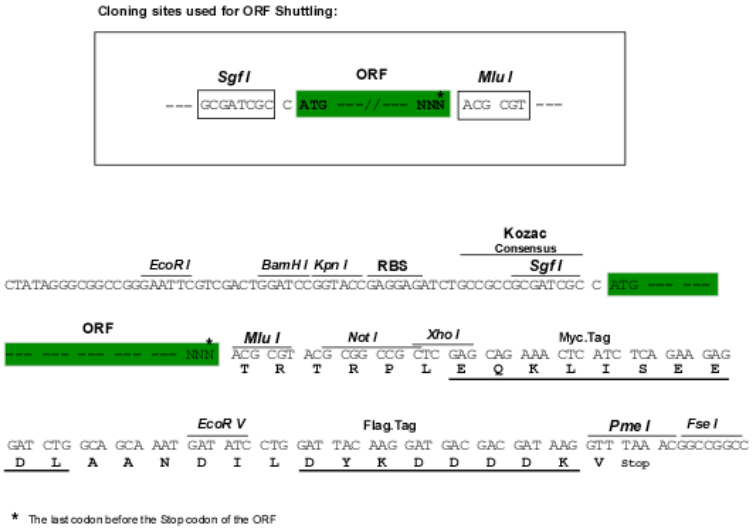
Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001004245

ORF Size: 1182 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).

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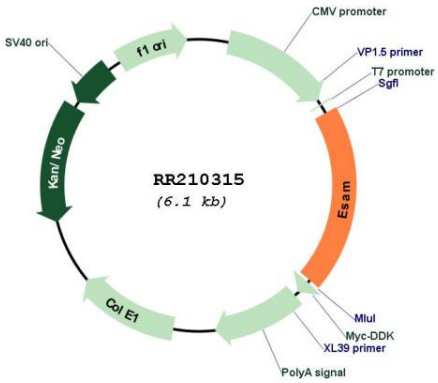
Reconstitution Method:	1. Centrifuge at 5,000xg for 5min. 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA. 3. Close the tube and incubate for 10 minutes at room temperature. 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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_001004245.1, NP_001004245.1
RefSeq Size:	1837 bp
RefSeq ORF:	1185 bp
Locus ID:	300519
UniProt ID:	Q6AYD4
Cytogenetics:	8q21
MW:	41.9 kDa
Gene Summary:	Can mediate aggregation most likely through a homophilic molecular interaction. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR210315

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