

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
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR210315 representing NM_001004245 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGATTCTTCGGCCAGAACCCCGAGACCAGCTTACTGCGGGTTTTGTTCTGGGACTGAGTACCCTTG
CTGCCTTCTCACTGGCTCAGATGGAGCTGCACGTGCCCTCAACAAATTGGAGGCGGTAGAGGG
GGAAGAAGTGGTCTCCCGCCTGGTACACGATGGCACGGGAGGAGTCTTCATCCACCCTGGGAGCG
CCCTTCTGATTTGGTCTTGGAAACAAGAAGGGAAGGAACCAAAGCAGGTCTGTCTATTTC AAGGGTT
CCCTGTCAAATAAACCTGGAGTAACCTGGTCCACTCCATCTCCACACGGAATGTGTCCCTGCGCCTGGA
TGCCCTCCAGGAGGGAGACTCTGGGACCTACCGTGTCTGTCAATGCGTACGACAGTGACGGCAAAAAT
ATAGGCCACAGCATCAAACGATAGAGCTCAAAGTGTGGTTCCTCCAGCTCCTCCATCCTGTAGTTTT
AGGGTGTACCCTATGTGGGGACCAATGTGACTCTGAAGTCAAGTCCCAAGGAGTAAACCTACTGCTCA
ATACCAGTGGGAGAGGCTGGCGCCATCCTCCAGGTCTTCTTTGGACCAGCCTTAGATACCGTCCGTGGA
TCTTTGAAGCTCACCAACATTTCCACTGCCATGTCTGGAGTCTATGTCTGCAAGGCCAAAACAGAGTGG
GCTTTGCCAGTGAATGTGACCTGGACGTGATGACAGGTC AAGGCTGCTGTGGTGGAGCAGT
GGTGGGCACTTTTGTGGGTTGGTGTGATAGCTGGTCTGGTCTGTGTACCAACGCCGAGCAAGACC
CTGGAAGAGCTGGCCAACGATATCAAGGAAGATGCCATTGCTCCCGGACCTTGCCTTGGACCAAAGGCT
CAGACACAATCTCCAAGAATGGGACACTTTCCTCAGTCACCTCAGCACGAGCTCTGCGGCCACCCAAAGC
TGCTCCTCCAAGACCTGGCAGTCTTACTCCTACCCAGTGTCTCTAGCCAGGCCCTGTCTCACCAGCA
CTGCTAGGACGGATGGGCCGCCACCTCAGGCAGTGTCCCTGACCCAGGTGGGGTTTCTTCTTCTACTC
TGAACCGCATGGGTGCCGTGCCGTGATGGTACCTGCACAGAGTCAGGCCGGTCTCTCGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR210315 representing NM_001004245
 Red=Cloning site Green=Tags(s)

MILPARTPETSLLRVLFLGLSTLAASFSLAQMELHVPPLNKLAVEGEEVVLPAWYTMAREESSHPWEA
 PFLIWFLEQEGKEPKQVLSYFKGSLSNKPGVTLVHSISTRNLSRLDALQEGDSGTYYRCSVNAVYSDGKN
 IGHSIKTIELKVLVPPAPPSCSFQGVVYGTNVTLNCKSPRSKPTAQYQWERLAPSSQVFFGPALDVTVRG
 SLKLTNISTAMSGVYVCKAQRVGFQACNVTLDMVTGSKAAVVAGAVVGTFFVGLVLIAGLVLLYQRRSKT
 LEELANDIKEDIAAPRTLPTWKGSDTISKNGTLSSVTSARALRPPKAAPPRPGTFTPTPSVSSQALSSPR
 LPRTDGPVAVSLTPGGVSSSTLNRMGAVPVMVPAQSQAGSLV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

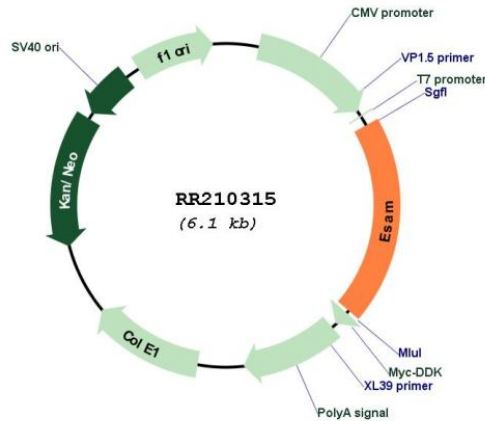
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



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).
Reconstitution Method:	<ol style="list-style-type: none">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]