

Product datasheet for RC219003

Estrogen induced gene 121 protein (KIAA1324) (NM_020775) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Estrogen induced gene 121 protein (KIAA1324) (NM_020775) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Estrogen induced gene 121 protein
Synonyms:	EIG121; KIAA1324
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC219003 representing NM_020775 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGAGCCTGGGCACAGCCACCATCTCTCCGCCAGAGTCAGGGGAAGAACTGAGAGGCGCATACCCCGGCTGTGGCGGCTGCTGCTCTGGGCTGGGACCGCCTTCCAGGTGACCCAGGGAACGGGACCGGAGCTTCA
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CCTGCAACGCCGGGAGTTTCTGGATATGAAGGACCAGTCATGTAAGCCATGCGCTGAGGGCCGCTACTC
CCTCGGCACAGGCATTCGGTTTGTGAGTGGGATGAGCTGCCCATGGCTTTGCCAGCCTCTCAGCCAAC
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 GCAAGCAGGAAGTACACCAATGACGTTGCCAAGATCTACTCCATCAATGTACCAATGTTATGAATGGTG
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 CATCCTCAGGAGGCTAGACATGGACCTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence:

>RC219003 representing NM_020775
 Red=Cloning site Green=Tags(s)

MAEPGSHHLSARVRGRTERIPRLWRLLLWAGTAFQVTQGTGPELHACKESEYHYEYACDSTGSRWRV
 AVPHTPGLCTSLPDPVKGTCEFSFNAGEFLDMKDQSKPCAEGRYSLGTGIRFDEWDELPHGFASLSAN
 MELDDSAEESTGNCTSSKWVPRGDYIASNTDECTATLMYAVNLKQSGTVNFEYYPDSSIIIEFFVQNDQ
 CQPNADDSRWMTTEKGEFHSVELNRGNVLYWRTTAFSVWTKVPKPVLVRNIAITGVAYTSECFCKP
 GTYADKQGSFCKLCPANSYSNKGETSCHQCDPKYSEKSSSCNVRPACTDKDYFYHTACDANGETQL
 MYKWAKPKICSEDELEGAVKLPASGVKTHCPPCNPGFFKTNNSTCQPCPYGSYSNGSDCTRCPAGTEPAVG
 FEYKWWNTLPTNMETT VLSGINFEYKGMTGWEVAGDHIYTAAGASDNDFMILTLVVPGRFPQSVMADE
 NKEVARITVFETLCSVNCELYFMVGVNSRTNTPVETWKGSKGQSYTYIEENTTSFTWAFQRTTFHE
 ASRKYTNDVAKIYSINVTNVMNGVASYCRPCALEASDVGSSTSCPAGYYIDRDSGTCHSPTNTILKAH
 QPYGVQACVPCPGTKNNKIHSLCYNDCTFSRNTPTRTFNYNFSALANTVTLAGGPSFTSKGLKYFHFT
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 TDMTLDGITSPAELFHLES LGIPDVIFFYRSNDVTQSCSSGRSTTIRVRCSPQKTVPGSLLLPGTCSGDT
 CDGCNFHFLWESAAACPLCSVADYHAIIVSSCVAGIQKTTYVWREPKLCSGGISLPEQRTVICKTIDFWLK
 VGISAGTCTAILLTVLTCYFWKKNQKLEYKYSKLVMNATLKDCDLPAADSCAIMEGEDVEDDLIFTSKKS
 LFGKIKSFTSKRTPDGFDSVPLKTS SGGLDMDL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8116_a06.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_020775

ORF Size: 3039 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_020775.4](#), [NP_065826.2](#)

RefSeq Size: 3428 bp

RefSeq ORF: 3042 bp

Locus ID: 57535

UniProt ID: [Q6UXG2](#)

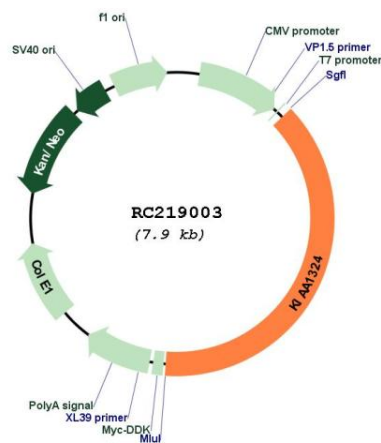
Cytogenetics: 1p13.3

Protein Families: Transmembrane

MW: 111.2 kDa

Gene Summary: Expression of this gene is induced by estrogen and the encoded protein has been characterized as a transmembrane protein. The encoded protein has been found in to correlate with survival in certain carcinomas (PMID: 21102415) and may be important for cellular response to stress (PMID: 21072319). Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2012]

Product images:



Circular map for RC219003