

## Product datasheet for **RC233063**

### Estrogen induced gene 121 protein (KIAA1324) (NM\_001267049) Human Tagged ORF Clone

#### Product data:

|                    |  |
|--------------------|--|
| Product Type:      | Expression Plasmids  |
| Product Name:      | Estrogen induced gene 121 protein (KIAA1324) (NM_001267049) Human Tagged ORF Clone |
| Tag:               | Myc-DDK  |
| Symbol:            | KIAA1324   |
| Synonyms:          | EIG121; RP11-352P4.1   |
| Vector:            | pCMV6-Entry (PS100001)   |
| E. coli Selection: | Kanamycin (25 ug/mL)   |
| Cell Selection:    | Neomycin   |



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## ORF Nucleotide Sequence:

>RC233063 representing NM\_001267049  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGTACAATGGCCAAGCCGAAAACTGTAGCGAGGACCTTGAGGGGGCAGTGAAGCTGCCTGCCTCTG  
GTGTGAAGACCCACTGCCACCCTGCAACCCAGGCTTCTTCAAAACCAACAACAGCACCTGCCAGCCCTG  
CCCATATGGTTCTACTCCAATGGCTCAGACTGTACCCGCTGCCCTGCAGGGACTGAACCTGCTGTGGGA  
TTTGAATACAATGGTGGAAACACGCTGCCACAACATGGAAACGACCGTTCTCAGTGGGATCAACTTCG  
AGTACAAGGGCATGACAGGCTGGGAGGTGGCTGGTGATCACATTTACACAGCTGCTGGAGCCTCAGACAA  
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TGGTGGGTGTGAATTCTAGGACCAACACTCCTGTGGAGACGTGAAAGGTTCCAAAGGCAACAGTCCTA  
TACCTACATCATTGAGGAGAACACTACCACGAGCTTACCTGGGCCTTCCAGAGGACCACATTTTCATGAG  
GCAAGCAGGAAGTACACCAATGACGTTGCCAAGATCTACTCCATCAATGTACCAATGTTATGAATGGTG  
TGGCCTCTACTGCCGTCCCTGTGCCCTAGAAGCCTCTGATGTGGGCTCCTCCTGCACCTCTTGCTCTGC  
TGGTACTATATTGACCGAGATTCAGGAACCTGCCACTCCTGCCCACTAACACAATTCTGAAAGCCAC  
CAGCCTTATGGTGTCCAGGCCTGTGTGCCCTGTGGTCCAGGGACCAAGAACAACAAGATCCACTCTCTGT  
GCTACAACGATTGCACCTTCTCACGCAACACTCCGACCAGGACTTTCAACTACAACCTTCTCCGCTTTGGC  
AAACACTGTCACTCTTGTGGAGGGCAAGCTTCACTTCCAAAGGGCTGAAATACTTCCATCACTTTACC  
CTCAGTCTCTGTGAAACCAGGGTAGGAAAATGTCTGTGTGCACCGACAATGTCACTGACCTCCGGATT  
CTGAGGGTGAGTCAGGGTTCTCCAAATCTATCACAGCCTACGCTCTGCCAGGCAGTCATCATCCCCCAGA  
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ACAGATATGACTCTGGATGGAATCACCTCCCCAGCTGAACTTTTCCACCTGGAGTCTTGGGAATACCGG  
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ATGCTCTGGTGGCATTCTCTGCCTGAGCAGAGAGTACCATCTGCAAAACCATAGATTTCTGGCTGAAA  
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ATCAAAAAGTACAGTACAAGTACTCCAAGCTGGTATGAATGCTACTCTCAAGGACTGTGACCTGCCAGC  
AGCTGACAGCTGCGCCATCATGGAAGGCGAGGATGTAGAGGACGACCTCATCTTTACCAGCAAGAAGTCA  
CTCTTTGGGAAGATCAAATCATTACCTCCAAGAGGACTCCTGATGGATTTGACTCAGTCCCGCTGAAGA  
CATCCTCAGGAGGCTAGACATGGACCTG

ACGCGTACGCGGCCGCTCGAGCAGAAAACATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC233063 representing NM\_001267049  
 Red=Cloning site Green=Tags(s)

MYKWAKPKICSEDLGAVKLPASGVKTHCPPCNPGFCKTNNSTCQPCPYGSYSNGSDCTRCPCAGTEPAVG  
 FEYKWWNTLPTNMETT VLSGINFEYKGMTGWEVAGDHIYTAAGASDNDFMILTLVVPGRPPQSVMADE  
 NKEVARITFVFETLCSVNCELYFMVGVNSRTNTPVETWKGSKGKQSYTYIIIEENTTSFTWAFQRTTFHE  
 ASRKYTNDVAKIYSINVTNVMNGVASYCRPCALEASDVGSSTSCPAGYYIDRDSGTCHSCTNTILKAH  
 QPYGVQACVPCGPGTKNNKIHSLCYNDCTFSRNTPTRTFNYSALANTVTLAGGPSFTSKGLKYFHHFT  
 LSLCGNQGRKMSVCTDNVTDLRIPEGESGFSKISITAYVCQAVIIPPEVTGYKAGVSSQPVSLADRLIGVT  
 TDMTLDGITSPAELFHLESGLIPDVIFFYRSNDVTQSCSSGRSTTIRVRCSPQKTVPGSLLLPGTCS DGT  
 CDGCNHFHFLWESAAACPLCSVADYHAI VSSCVAGIQKTTYVWREP KLCSGGISLPEQRVTICKTIDFWLK  
 VGISAGTCTAILLTVLTCYFWKKNQKLEYKYSKLV MNATLKDCDLPAADSCAIMEGEDVEDDLIFTSKKS  
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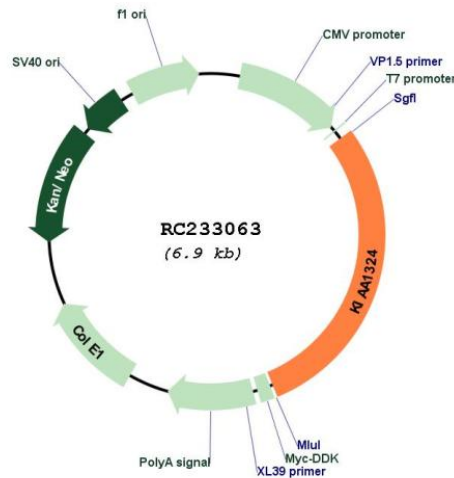
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001267049

**ORF Size:** 1989 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\\_001267049.1](#), [NP\\_001253978.1](#)

RefSeq Size: 5990 bp

RefSeq ORF: 1991 bp

Locus ID: 57535

Cytogenetics: 1p13.3

Protein Families: Transmembrane

MW: 72.7 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]