

Product datasheet for SC102421

Estrogen induced gene 121 protein (KIAA1324) (NM_020775) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Estrogen induced gene 121 protein (KIAA1324) (NM_020775) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Estrogen induced gene 121 protein |
| Synonyms: | EIG121; KIAA1324 |
| Mammalian Cell Selection: | None |
| Vector: | <u>pCMV6-XL4</u> |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| Fully Sequenced ORF: | >OriGene ORF within SC102421 sequence for NM_020775 edited (data generated by NextGen Sequencing) |

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ATGGCTGAGCCTGGGCACAGCCACCATCTCTCCGCCAGAGTCAGGGGAAGAACTGAGAGG
CGCATACCCCGGCTGTGGCGGCTGCTGCTGGGCTGGGACCGCCTTCCAGGTGACCCAG
GGAACGGGACCGGAGCTTCATGCCTGCAAAGAGTCTGAGTACCACTATGAGTACACGGCG
TGTGACAGCACGGGTTCCAGGTGGAGGGTGCCTGCGCATACCCGGGCTGTGCACC
AGCCTGCCTGACCCCGTCAAGGGCACCGAGTGCTCCTTCTCCTGCAACGCCGGGGAGTTT
CTGGATATGAAGGACCAGTCATGTAAGCCATGCGCTGAGGGCCGCTACTCCCTCGGCACA
GGCATTCCGGTTTATGAGTGGGATGAGCTGCCCATGGCTTGGCAGCCTCTCAGCCAAC
ATGGAGCTGGATGACAGTGTCTGAGTCCACCGGAACTGTACTTCGTCCAAGTGGGTT
CCCCGGGGCGACTACATGCCTCCAACACGGACGAATGCACAGCCACACTGATGTACGCC
GTCAACCTGAAGCAATCTGGCACCCTAACTTCGAATACTACTATCCAGACTCCAGCATC
ATCTTTGAGTTTTTCGTTTCAAGATGACCAGTGCCAGCCCAATGCAGATGACTCCAGGTGG
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GGCAGTATGCAGACAAGCAGGGCTCCTCTTTCTGCAAACCTTGGCCAGCCAACCTTAT
TCAAATAAAGGAGAACTTCTTCCACAGTGTGACCCGACAAATACTCAGAGAAAGGA
TCTTCTTCTGTAACTGCGCCAGCTTGACAGACAAAGATTATTTCTACACACACAGC
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CCCTGCAACCCAGGCTTCTTCAAACCAACAACAGCACCTGCCAGCCCTGCCCATATGGT
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CCTCCGACGTCGGTGTATGACAGACAGAGAATAAAGAGGTGGCCAGAATCACATTTGTC

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TTTGAGACCCTCTGTTCTGTGAAGTGTGAGCTCTACTTCATGGTGGGTGGAATTCTAGG
 ACCAACACTCCTGTGGAGACGTGAAAGGTTCCAAAGGCAAACAGTCCTATACCTACATC
 ATTGAGGAGAACACTACCACGAGCTTCACTGGGCCTTCCAGAGGACCACCTTTTCATGAG
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 TCCTGCACCTCTGTCTGTCTGGTTACTATATTGACCGAGATTTCAGGAACCTGCCACTCC
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 TACTCCAAGCTGGTGAATGATGCTACTCTCAAGGACTGTGACCTGCCAGCAGCTGACAGC
 TGCGCCATCATGGAAGGCGAGGATGTAGAGGACGACCTCATCTTTACCAGCAAGAAGTCA
 CTCTTTGGGAAGATCAAATCATTACCTCCANNNGACTCCTGATGGATTGACTCAGTG
 CCGCTGAAGACATCCTCAGGAGGCCAGACATGGACCTGTGA

Clone variation with respect to NM_020775.3

1749 t=>c;1867 a=>c;1968 c=>t;1995 g=>a;2037 t=>c;2077 c=>t;2511 g=>a;2972 a=>n;2973
 g=>n;2974 a=>n;2975 g=>n;3026 t=>c

**5' Read Nucleotide
 Sequence:**

>OriGene 5' read for NM_020775 unedited

TTCAAAATTTGTAATACGACTTCACTATAGGGCGCCGCGATTCCGGCACGAGGAAACAGC
 AGCCGCAGCACCTGAGCCGCTACTGCCGCTCACTCAGGACAACGCTATGGCTGAGCCTGG
 GCACAGCCACCATCTCTCCGCCAGAGTCAGGGGAAGAAGTGAAGGGCGCATACCCCGGCT
 GTGGCGGCTGCTGCTCTGGGCTGGGACCGCCTTCCAGGTGACCCAGGGAACGGGACCGGA
 GCTTCATGCCTGCAAAGAGTCTGAGTACCACTATGAGTACACGGCGTGTGACAGCACGGG
 TTCCAGGTGGAGGGTCCCGTGCAGCATACCCCGGCGCTGTGACCCAGCCTGCCTGACCC
 CGTCAAGGGCACCGAGTCTCTTCTCCTGCAACGCCGGGAGTTTCTGGATATGAAGGA
 CCAGTCATGTAAGCCATGCGCTGAGGGCCGCTACTCCCTCGGCACAGGCATTCCGTTTGA
 TGAGTGGGATGAGCTGCCCCATGGCTNTGCCAGCCTCTCAGCCAACATGGAGCTGGATGA
 CAGTGTGCTGAGTCCACCGGAACTGTACTTCGTCCAAGTGGGTTCCCGGGGCGACTA
 CATCGCTCCAACACGGACGAATGCACAGCCACACTGATGTACGCCGTCAACCTGAAGCA
 ATCTGGCACCGTTAACTTCGAATACTACTATCCAGACTCCAGCATCATCTNTGAGTTTTT
 CGTTCAGAATGACCAGTGCCAGCCCAATGCAGATGACTCCAGGTGGATGAAGACCACAGA
 GAAAGGATGGGAATTCACAGTGTGGAGCTAAATCGAGGCATAATGTCCTCTATTGGGGA
 ACACAGCCTTCTCAGTATGACCAAAATACCCAGCCTGTGCTGGTGAGAAACATGNCATACA
 GGGGTGGCCTACACTTCAGAATGCTTCCCTGCAACCTGCACGTATGCAGACAGCAGGNCT
 NCTCTTCTGCAN

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| 3' Read Nucleotide Sequence: | >OriGene 3' read for NM_020775 unedited TGCTTTGAACCGCGCNCGCATNCTAGGATCGAGTTTTTTTTTTTTTTTTTAATTACAT TTATTTAATGCTGAATTTACTCCCGTGCCATAAGTTTTTGTTCCTTCAGTTTCTTCTGG GATATCTTTTTCTTCTGGGCAACCTCCTCTTCTGGTTTAGGAACAATCTGTTCTTTTCC GTAAGGATCATCTCAATGTGGCAGGGAGAGCTCATGTATGGGTTAATCCGACCATGAGCT CTGTAGGTCGGGCGGCATCTTAGGTGCTTTGTTCACTTGGATATGCTCAATGACCAGA GAATCTACATCTAAACCCTTAAGTTCAGCATTACTCTCGCTTTTTAAGCATGTGCAGC AAAAATTCAGCACTCTTTTTGGGCCACCGACCTTGTGTCCAGCCCATGCTTGGCCTGC GCACACCTGCCAACTCCACCATTGTAACGTCGGAATGGTACACACTGTTTCTGTAAGTG ACATCTTTCAGATACTTCGTGGCTTTTCGTATATGCATACCCTTGATGGCCTGAGCAGTT TCACGAGTGTTCTTAAAGTGAACACGAAGATTGGAACCTCTTGATTTGCATGATTTCTG GGGTTCTCCGGTCAAGTGAATAGCGAACCATTTGNTTTTTTTTTTTTTTTTTTTTTTTT TAATTTACAAACAAAGTGTGGGTATATTTGGCAGTTTGAGGCAAGCAAAAAGGAGGGTT TGGGTACTCTATAAAAAAAGATCTGAAATTCAAACATCTGATAAGGCCACAATGAAGAGA TTTCCANCANTGGGTGTTGCANGATGCTGGCACCAAATCGCCGCANGCTTGCNAAAGTG CTATGCAAGGTGAGGAGGCCAGTGAAGCANGCAGTGCCTCTCACAGTCCATGTCTGGGCC TCTGGAGATGTCTTCAGCGCCCTTGATCAATCATCAGAGTCTGGAGGTAAGC |
| Restriction Sites: | NotI-NotI |
| ACCN: | NM_020775 |
| Insert Size: | 4050 bp |
| OTI Disclaimer: | Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP). |
| 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_020775.2 , NP_065826.2 |
| RefSeq Size: | 3428 bp |
| RefSeq ORF: | 3042 bp |
| Locus ID: | 57535 |
| UniProt ID: | Q6UXG2 |
| Cytogenetics: | 1p13.3 |
| Protein Families: | Transmembrane |

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]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longest protein (isoform 1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.