

## Product datasheet for **RC238989**

### **EYA4 (NM\_001301012) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	EYA4 (NM_001301012) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	EYA4
Synonyms:	CMD1J; DFNA10
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RC238989 representing NM\_001301012  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGAAGACTCCCAGGATTTAAATGAACAATCAGTAAAGAAAACGTGCACAGAATCAGATGTTTCACAAT  
 CTCAGAATTCCAGGTCTATGAAATGCAGGACCTAGCAAGTCTCATACTTGTGGAGGTGGTGATAC  
 TCCAGGTAGTCCAAACTGGAAAAATCTAATCTCAGCAGCACATCAGTTACTACAATGGGACAGGAGTA  
 ATTACAAGTAGTGGCTACAGCCCCAGATCAGCACATCAGTATCCCCACAGCTGTATCCTTCCAAGCCCT  
 ATCCACACATTCTTTCTACACCAGCAGCTCAAACAATGTCTGCCTATGCAGGCCAGACTCAGTATTCGGG  
 GATGCAGCAGCCAGCCGTCTACACAGCCTACTCACAGACAGGACAGCCCTACAGCTTGCCCACTTACGAT  
 TTGGGTGTGATTTGCCAGCCATCAAGACAGAGAGTGGACTTTCCCAAACCTCAGTCCCATTACAGAGTG  
 GCTGCCTCAGTTACAGCCAGGGTTCTCTACCCACAGCCAGGCCAGACACCTTATTCTTACCAAATGCC  
 AGTTTCTAGTTTTGCACCATCATCTACTATTTATGCAAATAATTCAGTTTCCAATCAACGAATTTTCAGT  
 GGTTCACAAACAGGATTATCCATCCTATACAGCCTTTGGCCAAAACAGTATGCACAGTATTATTCAGCAT  
 CAACGTATGGAGCGTATATGACATCGAATAACACAGCCGATGGCACACCCCTCTTCAACCTCTACTTATCA  
 GTTGCAGGAATCTCTCCAGGACTGACTAACCAACCAGGAGAGTTCGATACCATGCAGAGTCCCTCCACA  
 CCCATCAAAGATCTTGATGAGAGAACCTGTAGGAGTTCTGGGTCAAAGTCCAGAGGAAGAGGCCGAAAA  
 ATAATCCCTCCCCGCCTCCTGATAGTGACCTGGAGCGTGTGTTGTCTGGGATTTGGATGAAACCATCAT  
 TGTTTTTCACTCACTGCTCACCGGTCTTATGCACAGAAGTATGGCAAGGATCCCCCATGGCTGTAAACC  
 CTTGGACTCCGCATGGAAGAAATGATTTTAACTTCTGATGATAATGGCAGGACTTAAGTACTACAGTTT  
 AGTGATCAAGTTCATATAGATGATGTTTCTCTGATGATAATGGCAGGACTTAAGTACTACAGTTT  
 TGCAACTGATGGCTTCCATGCAGCTGCAAGTAGTGCAAACCTTTGTTTCCAAACAGGTGTAAGAGGAGGG  
 GTTGACTGGATGAGGAAGTTGGCTTTTCGTTACAGAAGAGTAAAAGAATTATATAACACCTACAAGAACA  
 ACGTTGGAGGACTCCTTGGCCCTGCCAAGAGGGATGCCTGGCTACAGTTAAGGGCAGAGATTGAAGGTCT  
 GACAGATTCTGGCTAACAAATGCACCTAAGTCTTTATCAATTATTAGCACTAGGAGTAAGTGCATAAAT  
 GTCTTGGTAACGACAACCTCAACTGATCCCAGCACTTGGCAAGTTCTACTCTATAGTTTAGGAGGTGCTT  
 TCCCCATTGAGAATTTACAGTGCAACTAAAATAGGCAAGGAAAGCTGTTTTGAGCGTATAGTGTCCAG  
 ATTTGGCACTAACATAACTTATGTTGTGATTGGAGATGGCCGAGATGAGGAGCATGCCGCTAACCCAGCAC  
 AACATGCCCTTCTGGAGGATATCCAGTCACTCAGACCTCTGGCTCTCCCAAGCACTGGAATTAGAGT  
 ATTTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC238989 representing NM\_001301012  
 Red=Cloning site Green=Tags(s)

MEDSQDLNEQSVKKTCTESDVSQSQNSRSMEMQDLASPHLTVGGDTPGSSKLEKSNLSSTSVTTNGTGV  
 ITSSGYSPRSAHQYSPQLYPSKPYPHILSTPAAQTMSAYAGQTQYSGMQQPAVYTAYSQTGQPYSLPTYD  
 LGVMLPAIKTESGLSQTQSPLQSGCLSYSPGFSTPQPGQTPYSYQMPGSSFAPSSTIYANNSVSNSTNFS  
 GSQQDYPSYTAFGQNQYAQYYSASTYGAYMTSNNTADGTPSSTSTYQLQESLPLTNQPGEFDTMQSPST  
 PIKDLDETRSSGSKSRGRGRKNPSPPPSDLERVFVWDLDETIIVFHSLLTGSYAQKYKDPMAVT  
 LGLRMEEMIFNLADTHLFFNDLEEDQVHIDDVSSDDNGQDLSTYSFATDGFHAAASSANLCLPTGVRGG  
 VDWMRKLAFRYRVRKELYNTYKNNVGGLLGPAKRDAWLQLRAEIEGLTDSWLTNALKSLSIISTRNCIN  
 VLVTQTQLIPALAKVLLYSLGGAFPIENIYSATKIGKESCFERIVSRFGTNIYVYVIGDRDEEHAANQH  
 NMPFWRISSHSDDLALHQALELEYL

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

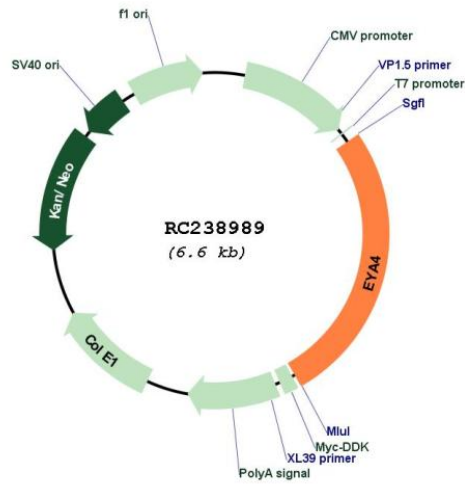
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001301012

ORF Size: 1755 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_001301012.1</a> , <a href="#">NP_001287941.1</a>
<b>RefSeq Size:</b>	5393 bp
<b>RefSeq ORF:</b>	1758 bp
<b>Locus ID:</b>	2070
<b>UniProt ID:</b>	<a href="#">O95677</a>
<b>Cytogenetics:</b>	6q23.2
<b>Protein Families:</b>	Druggable Genome, Phosphatase, Transcription Factors
<b>MW:</b>	64.4 kDa
<b>Gene Summary:</b>	This gene encodes a member of the eyes absent (EYA) family of proteins. The encoded protein may act as a transcriptional activator through its protein phosphatase activity, and it may be important for eye development, and for continued function of the mature organ of Corti. Mutations in this gene are associated with postlingual, progressive, autosomal dominant hearing loss at the deafness, autosomal dominant non-syndromic sensorineural 10 locus. The encoded protein is also a putative oncogene that mediates DNA repair, apoptosis, and innate immunity following DNA damage, cellular damage, and viral attack. Defects in this gene are also associated with dilated cardiomyopathy 1J. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Jul 2014]