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Product datasheet for RC208336

EYA4 (NM_172103) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EYA4 (NM_172103) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	EYA4
Synonyms:	CMD1J; DFNA10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>RC208336 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAAGACTCCCAGGATTTAAATGAACAATCAGTAAAGAAAACGTGCACAGAATCAGATGTTTCACAAT
CTCAGAATTCCAGGTCTATGGAAATGCAGGACCTAGCAAGTCCTCATACTCTTGTTGGAGGTGGTGATAC
TCCAGGTAGCTCCAAACTGGAAAAATCTAATCTCAGCAGCACATCAGTTACTACAAATGGGACAGGAGTG
TCTCTTCTTGCAGTCAAAACAGAGCCCTTGAACAGCAGTGAAACCACAGCCACGACTGGAGATGGAGCGC
TTGACACTTTTACTGGGTCAGTAATTACAAGTAGTGGCTACAGCCCCAGATCAGCACATCAGTATTCCCC
ACAGCTGTATCCTTCCAAGCCCTATCCACACATTCTTTCTACACCAGCAGCTCAAACAATGTCTGCCTAT
GCAGGCCAGACTCAGTATTCGGGGATGCAGCAGCCAGCCGTCTACACAGCCTACTCACAGACAGGACAGC
CCTACAGCTTGCCCACTTACGATTTGGGTGTGATGTTGCCAGCCATCAAGACAGAGAGTGGACTTTCCCA
AACTCAGTCCCCATTACAGAGTGGCTGCCTCAGTTACAGCCCAGGGTTCTCTACCCCACAGCCAGGCCAG
ACACCTTATTCTTACCAAATGCCAGGTTCTAGTTTTGCACCATCATCTACTATTTATGCAAATAATTCAG
TTTCCAATTCAACAAATTTCAGTGGTTCACAACAGGATTATCCATCCTATACAGCCTTTGGCCAAAACCA
GTATGCACAGTATTATTCAGCATCAACGTATGGAGCGTATATGACATCGAATAACACAGCCGATGGCACA
CCCTCTTCAACCTCTACTTATCAGTTGCAGGAATCTCTCCCAGGACTGACTAACCAACCAGGAGAGTTCG
ATACCATGCAGAGTCCCTCCACACCCATCAAAGATCTTGATGAGAGAACCTGTAGGAGTTCTGGGTCAAA
GTCCAGAGGAAGAGGCCGGAAAAATAATCCCTCCCCGCCTCCTGATAGTGACCTGGAGCGTGTGTTTGTC
TGGGATTTGGATGAAACCATCATTGTTTTTCACTCACTGCTCACCGGGTCTTATGCACAGAAGTATGGCA
AGGATCCCCCCATGGCTGTAACCCTTGGACTCCGCATGGAAGAAATGATTTTTAATCTTGCTGATACTCA
TTTGTTTTTTAATGATTTAGAGGAGTGTGATCAAGTTCATATAGATGATGTTTCCTCTGATGATAATGGG
CAGGACTTAAGTACCTACAGTTTTGCAACTGATGGCTTCCATGCAGCTGCAAGTAGTGCAAACCTTTGTT
TGCCAACAGGTGTAAGAGGAGGGGTTGACTGGATGAGGAAGTTGGCTTTTCGTTACAGAAGAGTAAAAGA
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TTAAGGGCAGAGATTGAAGGTCTGACAGATTCCTGGCTAACAAATGCACTTAAGTCTTTATCAATTATTA
GCACTAGGAGTAACTGCATAAATGTCTTGGTAACGACAACTCAACTGATCCCAGCACTTGCGAAGGTTCT
ACTCTATAGTTTAGGAGGTGCTTTCCCCATTGAGAATATTTACAGTGCAACTAAAATAGGAAAAGAAAGT
TGCTTTGAACGAATAATGCAAAGGTTTGGCAGAAAAGTAGTGTATGTTGTAATTGGGGATGGTGTAGAAG
AAGAACAGGCAGCAAAAAAGCACAACATGCCCTTCTGGAGGATATCCAGTCACTCAGACCTCCTGGCTCT
CCACCAAGCACTGGAATTAGAGTATTTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC208336 protein sequence
Red=Cloning site Green=Tags(s)

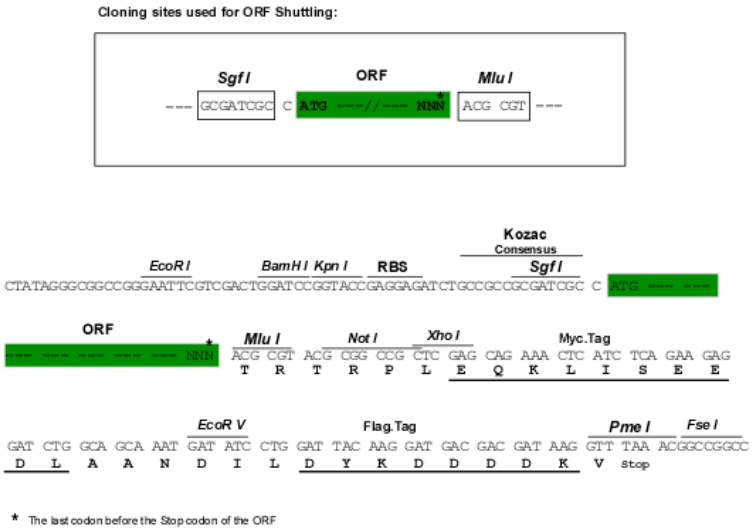
MEDSQDLNEQSVKKTCTESDVSQSQNSRSMEMQDLASPHTLVGGGDTPGSSKLEKSNLSSTSVTTNGTGV
SLLAVKTEPLNSSETTATTGDGALDTFTGSVITSSGYSPRSAHQYSPQLYPSKPYPHILSTPAAQTMSAY
AGQTQYSGMQQPAVYTAYSQTGQPYSLPTYDLGVMLPAIKTESGLSQTQSPLQSGCLSYSPGFSTPQPGQ
TPYSYQMPGSSFAPSSTIYANNSVSNSTNFSGSQQDYPSYTAFGQNQYAQYYSASTYGAYMTSNNTADGT
PSSTSTYQLQESLPGLTNQPGEFDTMQSPSTPIKDLDERTCRSSGSKSRGRGRKNNPSPPPDSDLERVFV
WDLDETIIVFHSLLTGSYAQKYGKDPPMAVTLGLRMEEMIFNLADTHLFFNDLEECDQVHIDDVSSDDNG
QDLSTYSFATDGFHAAASSANLCLPTGVRGGVDWMRKLAFRYRRVKELYNTYKNNVGGLLGPAKRDAWLQ
LRAEIEGLTDSWLTNALKSLSIISTRSNCINVLVTTTQLIPALAKVLLYSLGGAFPIENIYSATKIGKES
CFERIMQRFGRKVVYVVIGDGVEEEQAAKKHNMPFWRISSHSDLLALHQALELEYL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6552_h05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_172103

ORF Size: 1848 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.

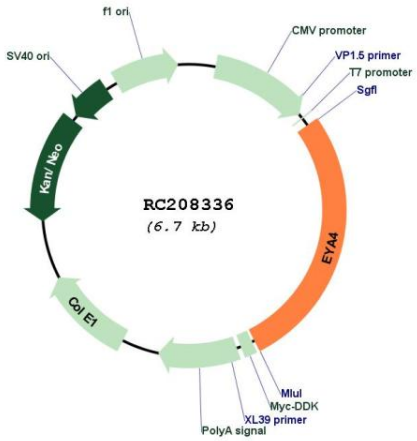
RefSeq: NM_172103.3

RefSeq Size: 5628 bp

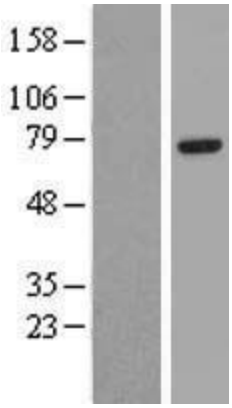
RefSeq ORF: 1851 bp

Locus ID:	2070
UniProt ID:	O95677
Cytogenetics:	6q23.2
Protein Families:	Druggable Genome, Phosphatase, Transcription Factors
MW:	67.1 kDa
Gene Summary:	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]

Product images:



Circular map for RC208336



Western blot validation of overexpression lysate (Cat# [LY406837]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208336 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).