

Product datasheet for **RC202509**

EYA2 (NM_172110) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EYA2 (NM_172110) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	EYA2
Synonyms:	EAB1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC202509 representing NM_172110
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTAGAACTAGTGATCTACCCAGCCTCACTGTAACACAGCGATTGTCTGGATAAACTGAAGTTTAACC
 GTGCTGACGCTGCTGTGTGGACTCTGAGTGACAGACAAGGCATCACCAAATCGGCCCCCTGAGAGTGTC
 CCAGCTCTTCTCCAGATCTTGCCACGTGTCTCCCCCGCCAGCCTTCCACAGCCATGGCAGCCTACGGC
 CAGACGCAGTACAGTGGGGGATCCAGCAGGCTACCCCTATACAGTTACCCACCTCCAGCACAAGCCT
 ATGGAATCCCTTCTTCCAGCACCTACCCACTGGACAGAGCCATACACCTACCAGATGCACGGCACAAC
 AGGTTTCTATCAAGGAGGAAATGGACTGGGCAACGCAGCCGGTTTCGGGAGTGTGCACCAGGACTATCCT
 TCCTACCCCGGCTTCCCCAGAGCCAGTACCCAGTATTACGGCTCATCTACAACCTCCCTACGTCC
 CGGCCAGCAGCATCTGCCCTTCGCCCTCTCCAGTCCACCTACGTCTCCAGGAGGCATCTCACAACGT
 CCCAACCCAGAGTCCGAGTCACTTGTGGTGAATACAACACACACAATGGACCTCCACACCAGCGAAA
 GAGGGAGACACAGACAGGCCCGCACCGGGCTCCGACGGGAAGCTCCGAGGCCGGTCTAAGAGGAGCAGTG
 ACCCGTCCCCGGCAGGGGACAATGAGATTGAGCGTGTGTTCTGTGGGACTTGGATGAGACAATAATTAT
 TTTTCACTCCTTACTCACGGGACATTTGCATCCAGATACGGGAAGGACACCACGACGTCCTGCGCATT
 GGCCTTATGATGGAAGAGATGATCTTCAACCTTGAGATACACATCTGTTCTTCAATGACCTGGAGGATT
 GTGACCAGATCCACGTTGATGACGTCTCATCAGATGACAATGGCCAAGATTTAAGCACATACAACTTCTC
 CGCTGACGGCTTCCACAGTTCGGCCCCAGCAGCCAACCTGTGCCTGGGCTCTGGCGTGCACGGCGGGCTG
 GACTGGATGAGGAAGCTGGCCTCCGCTACCGGGGGTGAAGGAGATGTACAATACCTACAAGAACAACG
 TTGGTGGTTGATAGGCACTCCCAAAGGGAGACCTGGCTACAGCTCCGAGCTGAGCTGGAAGCTCACG
 AGACCTCTGGCTGACCCACTCCCTGAAGGCACTAAACCTCATCAACTCCCGGCCAACTGTGTCATGTG
 CTGGTACCACCACTCAACTAATTCCTGCCCTGGCCAAAGTCTGCTATATGGCCTGGGGTCTGTGTTTC
 CTATTGAGAACATCTACAGTGCAACCAAGACAGGGAAGGAGAGCTGCTTCGAGAGGATAATGCAGAGATT
 CGGCAGAAAAGCTGTCTACGTGGTATCGGTGATGGTGTGGAAGAGGAGCAAGGAGCGAAAAAGCACAAC
 ATGCCTTCTGGCGGATATCCTGCCACGCAGACCTGGAGGCACTGAGGCACGCCCTGGAGCTGGAGTATT
 TA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC202509 representing NM_172110
 Red=Cloning site Green=Tags(s)

MVELVISPSLTVNSDCLDKLFNRADAAVWTLSDRQGITKSAPLRVSQLFSRSCPRVLPQPSTAMAAYG
 QTQYSAGIQQATPYTAYPPPAQAYGIPSFSTPTGQSPYTYQMHGTTGFYQGGNGLGNAAGFGSVHQDYP
 SYPGFQSQYQYYGSSYNPPYVPASSICPSPLSTSTYVLQEASHNVPNQSSSLAGEYNTHNGPSTPAK
 EGDTRPHRASDGKLRGRSKRSSDPSPAGDNEIERVFWDLDETIIFHSLLTGTFASRYGKDTTTSVRI
 GLMMEEMIFNLADTHLFFNDLEDCQIHVDDVSSDDNGQDLSTYNFSADGFHSSAPAANLCLGSGVHGGV
 DWMRKLAFRYRRVKEMYNTYKNNVGGGLIGTPKRETWLQLRAELEALDNLWTHSLKALNLINSRPNVNV
 LVTTTQLIPALAKVLLYGLGSVFPIENIYSATKTGKESCFERIMQRFGRKAVYVVVIGDGVEEEQAKKHN
 MPFWRISCHADLEALRHAELEYL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

ACCN:	NM_172110
ORF Size:	1542 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:	<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_172110.2
RefSeq Size:	2406 bp
RefSeq ORF:	1380 bp
Locus ID:	2139
UniProt ID:	O00167
Cytogenetics:	20q13.12
Protein Families:	Phosphatase, Transcription Factors
MW:	50.4 kDa
Gene Summary:	This gene encodes a member of the eyes absent (EYA) family of proteins. The encoded protein may be post-translationally modified and may play a role in eye development. A similar protein in mice can act as a transcriptional activator. Alternative splicing results in multiple transcript variants, but the full-length natures of all of these variants have not yet been determined. [provided by RefSeq, Jul 2009]