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Product datasheet for SC336314

EYA1 (NM_001288575) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	EYA1 (NM_001288575) Human Untagged Clone
Tag:	Tag Free
Symbol:	EYA1
Synonyms:	BOP; BOR; BOS1; OFC1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

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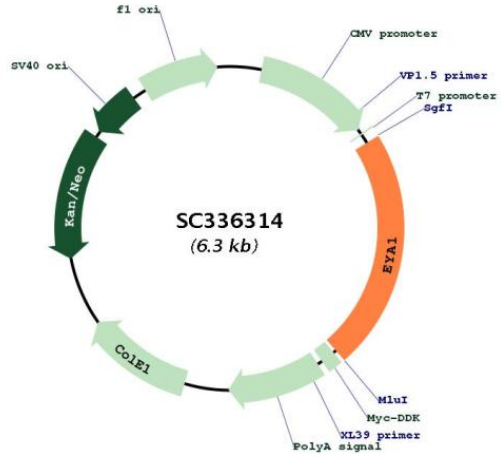
Fully Sequenced ORF:

>SC336314 representing NM_001288575.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCAACAAGCTACAGCCTATGCCACGTACCCACAGCCAGGACAGCCGTACGGCATTTCCTCATATGGC
ATCAAGACTGAAGGTGGATTGTCACAGTCTCAGTCACCTGGACAGACAGGATTTCTCAGCTATGGCACA
AGCTTCAGTACCCCTCAACCTGGACAGGCACCATACAGCTACCAGATGCAAGGTAGCAGTTTTACAACA
TCATCAGGAATATATACAGGAAATAATTCACTCACAAATTCCTCTGGATTTAATAGTTCACAGCAGGAC
TATCCGTCTTATCCCAGTTTTGGCCAGGGTCAGTACGCACAGTATTATAACAGCTCACCGTATCCAGCA
CATTATATGACCAGCAGCAACACCAGCCCAACGACACCATCCACCAATGCCACTTACCAGCTTCAAGAA
CCGCCATCTGGCATCACCAGCCAAGCAGTTACAGATCCCACAGCAGAGTACAGCACAATCCACAGCCCA
TCAACACCCATTAAAGATTCAGATTCTGATCGATTGCGTCGAGGTTCAGATGGGAAATCACGTGGACGG
GGCCGAAGAAACAATAATCCTTCACCTCCCCCAGATTCTGATCTTGAGAGAGTGTTCATCTGGGACTTG
GATGAGACAATCATTGTTTTCCACTCCTTGCTTACTGGGTCCTACGCCAACAGATATGGGAGGGATCCA
CCCACTTCAGTTTCCCTTGGACTGCGAATGGAAGAAATGATTTTCAACTTGGCAGACACACATTTATTT
TTTAATGACTTAGAAGAATGTGACCAAGTCCATATAGATGATGTTTCTTCAGATGATAACGGACAGGAC
CTAAGCACATATAACTTTGGAACAGATGGCTTTCCTGCTGCAGCAACCAGTGCTAACTTATGTTTGGCA
ACTGGTGTACGGGGCGGTGTGGACTGGATGAGAAAGTTGGCCTTCCGCTACAGACGGGTAAAAGAGATC
TACAACACCTACAAAAATAATGTTGGAGGTCTGCTTGGTCCAGCTAAGAGGGAAGCCTGGCTGCAGTTG
AGGGCCGAAATTGAAGCCCTGACCGACTCCTGGTTGACACTGGCCCTGAAAGCACTCTCGCTCATTCAC
TCCCGGACAAACTGTGTGAATATTTTAGTAACAACTACTCAGCTCATCCCAGCATTGGCGAAAGTCCTG
CTGTATGGGTTAGGAATTGTATTTCCAATAGAAAATATTTACAGTGCAACTAAAATAGGAAAAGAAAGC
TGTTTTGAGAGAATAATTCAAAGGTTTGGAAGAAAAGTGGTGTATGTTGTTATAGGAGATGGTGTAGAA
GAAGAACAAGGAGCAAAAAAGCACGCGATGCCCTTCTGGAGGATCTCCAGCCACTCGGACCTCATGGCC
CTGCACCATGCCTTGGAACTGGAGTACCTGTAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites: SgfI-MluI

Plasmid Map:



ACCN: NM_001288575

Insert Size: 1413 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:	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_001288575.1
RefSeq Size:	4259 bp
RefSeq ORF:	1413 bp
Locus ID:	2138
UniProt ID:	Q99502
Cytogenetics:	8q13.3
Protein Families:	Druggable Genome, Phosphatase, Transcription Factors
MW:	51.8 kDa

Gene Summary: This gene encodes a member of the eyes absent (EYA) family of proteins. The encoded protein may play a role in the developing kidney, branchial arches, eye, and ear. Mutations of this gene have been associated with branchiootorenal dysplasia syndrome, branchiootic syndrome, and sporadic cases of congenital cataracts and ocular anterior segment anomalies. A similar protein in mice can act as a transcriptional activator. Alternatively spliced transcript variants have been identified for this gene. [provided by RefSeq, Dec 2013]
Transcript Variant: This variant (6) uses alternate acceptor splice sites at two internal exons, the first of which causes translation initiation from an in-frame downstream start codon compared to variant EYA1C. The resulting isoform (5) has a shorter N-terminus and lacks a 5 aa protein segment compared to isoform 1.