

Product datasheet for **RC232398**

Biliverdin Reductase (BLVRA) (NM_001253823) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Biliverdin Reductase (BLVRA) (NM_001253823) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Biliverdin Reductase
Synonyms:	BLVR; BVR; BVRA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC232398 representing NM_001253823 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAATACAGAGCCCAGAGGAAGTTTGGCGTGGTGGTGGTGGTGGCCGAGCCGGCTCCGTGCGGA
TGAGGGACTTGCGGAATCCACACCCTTCCTCAGCGTTCCTGAACCTGATTGGCTTCGTGTCGAGAAGGGA
GCTCGGGAGCATTGATGGAGTCCAGCAGATTTCTTGGAGGATGCTCTTCCAGCCAAGAGGTGGAGGTC
GCCTATATCTGCAGTGAGAGCTCCAGCCATGAGGACTACATCAGGCAGTTCCTTAATGCTGGCAAGCAGC
TCCTTGTGGAATACCCCATGACACTGTCATTGGCGGCCGCTCAGGAAGTGGGAGCTGGCTGAGCAGAA
AGGAAAAGTCTCGCACGAGGAGCATGTTGAACTTTGATGGAGGAATTCGCTTTCCTGAAAAAGAAAGTG
GTGGGAAAGACCTGCTGAAAGGTCGCTCCTTTCACAGCTGGCCCGTTGGAAGAAGAGCGGTTTGGCT
TCCTGCAATTCAGCGGCATCTCTCGCCTGACCTGGCTGGTCTCCCTCTTGGGGAGCTTTCTCTGTGTC
TGCCACTTTGGAAGAGCGAAAGGAAGATCAGTATATGAAAATGACAGTGTGTCTGGAGACAGAGAAGAAA
AGTCCACTGTGATGGATTGAAGAAAAAGGACCTGGTCTAAAACGAAACAGATATTTAAGCTTCCATTTCA
AGTCTGGGTCCTTGGAGAATGTGCCAAATGTAGGAGTGAATAAGAACATATTTCTGAAAGATCAAAATAT
ATTTGTCCAGAACTCTTGGGCCAGTTCTTGAGAAGAACTGGCTGCTGAAAAGAAACGCATCTGCAC
TGCTGGGGCTTGCAAGAAATCCAGAAATATTGCTGTTCAAGGAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC232398 representing NM_001253823
 Red=Cloning site Green=Tags(s)

MNTEPERKFGVVVVGVGRAGSVRMRDLRNPSSAFLNLIIGFVSRRELGSIDGVQQISLEDALSSQEVEV
 AYICSESSSHEDYIRQFLNAGKHVLEVPMTLSLAAAQELWELAEQKGKVSHEEHVELLMEEFAFLKKEV
 VGKDLLKGSLLFTAGPLEEERFGFPFSGISRSLTWLVSLFGELSLVSATLEERKEDQYMKMTVCLTEKK
 SPLSWIEEKGPGLKRNRYL SFHFKSGSLEPNVGVNKNIFLKDQNI FVQKLLGQFSEKELAAEKKRILH
 CLGLAEEIQKYCCSRK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6577_b11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001253823

ORF Size: 888 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_001253823.1](#), [NP_001240752.1](#)

RefSeq Size: 1191 bp

RefSeq ORF: 891 bp

Locus ID: 644

UniProt ID: [P53004](#)

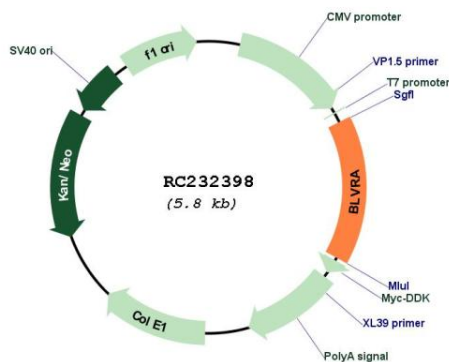
Cytogenetics: 7p13

Protein Pathways: Porphyrin and chlorophyll metabolism

MW: 33.4 kDa

Gene Summary: The protein encoded by this gene belongs to the biliverdin reductase family, members of which catalyze the conversion of biliverdin to bilirubin in the presence of NADPH or NADH. Mutations in this gene are associated with hyperbiliverdinemia. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Dec 2011]

Product images:



Circular map for RC232398