

Product datasheet for **RG203243**

Biliverdin Reductase (BLVRA) (NM_000712) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Biliverdin Reductase (BLVRA) (NM_000712) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Biliverdin Reductase
Synonyms:	BLVR; BVR; BVRA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG203243 representing NM_000712 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAATACAGAGCCCAGAGGAAGTTTGGCGTGGTGGTGGTGGTGGTGGCCGAGCCGGCTCCGTGCGGA
TGAGGGACTTGCGGAATCCACACCCTTCTCAGCGTTCCTGAACCTGATTGGCTTCGTGTCGAGAAGGGA
GCTCGGGAGCATTGATGGAGTCCAGCAGATTTCTTGGAGGATGCTTTCCAGCCAAGAGGTGGAGGTC
GCCTATATCTGCAGTGAGAGCTCCAGCCATGAGGACTACATCAGGCAGTTCCTTAATGCTGGCAAGCAGC
TCCTTGTGGAATACCCCATGACACTGTCATTGGCGGCCGCTCAGGAAGTGTGGGAGCTGGCTGAGCAGAA
AGGAAAAGTCTCGCACGAGGAGCATGTTGAACTTTGATGGAGGAATTCGCTTTCCTGAAAAAAGAAGTG
GTGGGAAAGACCTGCTGAAAGGTCGCTCCTTTCACAGCTGGCCCGTGGAAAGAAGAGCGGTTTGGCT
TCCTGCATTAGCGGCATCTCTCGCCTGACCTGGCTGGTCTCCCTCTTTGGGGAGCTTTCTCTTGTGTC
TGCCACTTTGGAAGAGCGAAAGGAAGATCAGTATATGAAAATGACAGTGTGTCTGGAGACAGAGAAGAAA
AGTCCACTGTGATGGATTGAAGAAAAGGACCTGGTCTAAAACGAAACAGATATTTAAGCTTCCATTTCA
AGTCTGGTCTTGGAGAATGTGCCAAATGTAGGAGTGAATAAGAACATATTTCTGAAAGATCAAAATAT
ATTTGTCCAGAACTCTTGGCCAGTTCCTGAGAAGGAAGTGGCTGCTGAAAAGAAACGCATCTGCAC
TGCCCTGGGGCTTGCAAGAAATCCAGAAATATTGCTGTTCAAGGAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG203243 representing NM_000712
 Red=Cloning site Green=Tags(s)

MNTEPERKFGVVVVGVRAGSVRMRDLRNPSSAFLNLI GFVSRRELGSIDGVQQISLEDALSSQEVEV
 AYICSESSSHEDYIRQFLNAGKHLVVEYPTLSLAAAQELWELAEQKGKVSHEEHVELLMEEF AFLKKEV
 VGKDLLKGSLLFTAGPLEEERFGFPAFSGISRLTWLVSLFGELSLVSATLEERKEDQYMKMTVCL ETEKK
 SPLSWIEEKGPGLKRNRYLSFHFKSGSLEPNVGNKNI FLKDQNI FVQKLLGQFSEKELAAEKKRILH
 CLGLAEEIQKYCCSRK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_000712

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_000712.3](#), [NP_000703.2](#)

RefSeq Size: 1094 bp

RefSeq ORF: 891 bp

Locus ID: 644

UniProt ID: [P53004](#)

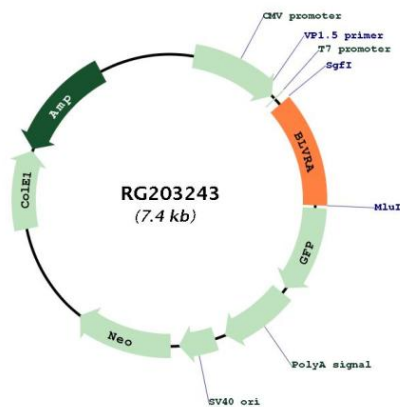
Cytogenetics: 7p13

Domains: GFO_IDH_MocA

Protein Pathways: Porphyrin and chlorophyll metabolism

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 RG203243