

Product datasheet for **RG224569**

Lamin B Receptor (LBR) (NM_194442) Human Tagged ORF Clone

Product data:

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|---------------------------|-----------------------------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | Lamin B Receptor (LBR) (NM_194442) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | LBR |
| Synonyms: | C14SR; DHCR14B; LMN2R; PHA; PHASK; TDRD18 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>RG224569 representing NM_194442
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGCCAAGTAGGAAATTTGCCGATGGTGAAGTGGTGAAGAGTCGATGGCCTGGGAGTTCACCTTTATTATG
 AAGTAGAAATTCGAGCCACGACAGCACCTCCAGCTTTACACTGTGAAGTATAAAGATGGAACAGAGCT
 TGAATTGAAAGAGAATGATATTAAGCCTTAACCTTCTTTAGGCAAAGGAAAGGTGGCTCAACTCCAGT
 TCCCTTCCAGACGCGGAGGAGTCGATCAAGGTCACGCTCCCGATCCCTGGTCGACCCTAAAAGTG
 CCCGCCGATCTGCTTCTGCTTCCACCAGGCCGACATTAAGGAAGCAAGGAGGGAAGTGAAGTTAAATT
 GACTCCGCTGATTCTGAAGCCATTTGAAATAGCATCAGCAGATATAATGGGAGCCTGAGCATATTGAG
 AGAAATGACGCACCTCATAAAAAACACAGGAAAAATTCAGTTTGTCAAGAAGCAGTTACATAGCAA
 CACAGTATAGCCTTCGTCGAAGAAGAGAAGAAGTCAAATTAAGAAATAGATTCTAAGGAAGAAAAATA
 CGTTGCAAAGAAGTGGCAGTGAGAACCTTTGAAGTGACCCCATCCGGGCAAAGGACTTGGAGTTTGGG
 GGAGTACCTGGTGTGTTTCTCATCATGTTTGGCCTGCCTGTTCCTTCTCCTGTTGCTGTTGATGTGTA
 AACAGAAAGATCCAGTCTTCTGAATTTCCCTCCTCCTTTGCCAGCTTTGTATGAGTTATGGGAAACCAG
 AGTATTTGGGGTCTACCTCCTGTGGTTTTTGTATTCAAGTCTGTCTACCTACTGCCAATTGAAAGGTT
 GTAGAAGGAACGCCTCTTATTGATGGAAGAAGACTCAAGTATAGATTAATGGATTCTATGCTTTTATCC
 TGACATCTGCAGTCATCGGAACATCTCTTCCAGGGCGTAGAGTTTCATTACGTGTACAGTCATTTTCT
 TCAGTTTGCACCTGCGGCCACTGTTTTTGTGTGGTCTTGAGTGTGTATCTACATGCGCTCTTTGAAA
 GCGCCCCGGAATGACCTGTGCGCTGCCAGCTTGAAATGCTGTCTATGATTTCTTATTGGCCGTGAAT
 TAAACCCTCGAATGGTACTTTTGTACTCAAATACTTTTGTGAATTGCGCCCCGATTGATGGATGGGT
 GGTTATTAACCTGGTGTGCTTTTGGCTGAAATGAAATACAGGACCGCGCTGTTCCATCCTTGGCCATG
 ATTTTAGTTAATAGTTTCCAGCTTCTCTATGTGGTGGATGCTCTGGAATGAGGAAGCGTTGTTGACGA
 CCATGGACATCATCCACGATGGATTTGGATTGATGCTGGCTTTTGGAGACTTGGTGTGGTTCCCTTTAT
 TTACAGCTTCCAAGCCTTTTATTAGTCAGTCATCCAAATGAAGTGTCTTGGCCAATGGCTTCTCTAATT
 ATTGTTCTGAACTTTGTGGTTATGTAATCTCCGAGGTGCAAAATTCAGAAAAATGCATTCCGAAAAA
 ATCCCAGTGATCCAAAGCTTGCACATTTAAAAACCATTCACTTCAACGGGAAAAAATCTTCTAGTTTC
 TGGATGGTGGGCTTTGTTGCCACCCCAATTACTTGGGTGATCTCATCATGGCCTTGGCGTGGTCCCTC
 CCATGTGGTTTTAACACATTCTGCCTTATTTCTACATAATTTATTTACCATGTTGCTTGTCCACCGAG
 AAGCTCGTGACGAGTACCACTGTAAAGAAGAAATACGGCGTGGCTTGGGAAAAGTACTGTCAGCGTGTGCC
 CTACCGTATATTTCCATACATCTAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG224569 representing NM_194442
 Red=Cloning site Green=Tags(s)

MPSRKFADGEVVRGRWPGSSLYEVEILSHDSTSQLYTVKYKDGTELELKENDIKPLTSFRQRKGGSTSS
 SPSRRRGSRSRSRSPGRPPKSARRSASASHQADIKARREVEVKLTPLILKPFNGNSISRYNGEPEHIE
 RNDAPHKNTQEFSLSQESSYIATQYSLRPREEVKLKEIDSKEEKYVAKELAVRTFEVTPIRAKDLEFG
 GVPGVFLIMFGLPVFLFLLLMCKQKDPSSLNFPPLPALYELWETRVFGVYLLWFLIQVLFYLLPIGKV
 VEGTPLIDGRRLKYRLNGFYAFILTSAVIGTSLFQGVFHYVYSHFLQFALAATVFCVVLVSVYLYMRSLK
 APRNDLSPASSGNAVYDFFIGRELNPRIGTDLKYFCELRPGLIGWVVINLVMLLAEMKIQDRAVPSLAM
 ILVNSFQLLYVVDALWNEEALLTTMDIIHDGFGFMLAFGDLVWVPFIYSFQAFYLVSHPNVSWPMASLI
 IYVLCGYYVIFRANSQKNAFRKNPSDPKLAHLKTIHTSTGKNLLVSGWVGFVRHPNYLGDILMALAWSL
 PCGFNHILPYFYIIYFTMLLVHREARDEYHCKKYGVAWEKYCQRPYRIFPYIY

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

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|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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_194442.2 |
| RefSeq Size: | 3789 bp |
| RefSeq ORF: | 1848 bp |
| Locus ID: | 3930 |
| UniProt ID: | Q14739 |
| Cytogenetics: | 1q42.12 |
| Protein Families: | Druggable Genome, Transmembrane |
| Gene Summary: | The protein encoded by this gene belongs to the ERG4/ERG24 family. It localized in the nuclear envelope inner membrane and anchors the lamina and the heterochromatin to the membrane. It may mediate interaction between chromatin and lamin B. Mutations of this gene has been associated with autosomal recessive HEM/Greenberg skeletal dysplasia. Alternative splicing occurs at this locus and two transcript variants encoding the same protein have been identified. [provided by RefSeq, Jul 2008] |