

Product datasheet for **RG205943**

Albumin (ALB) (NM_000477) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Albumin (ALB) (NM_000477) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Albumin |
| Synonyms: | FDAHT; HSA; PRO0883; PRO0903; PRO1341 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>RG205943 representing NM_000477
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAGTGGGTAACCTTTATTTCCCTTCTTTTTCTCTTTAGCTCGGCTTATTCCAGGGGTGTGTTTCGTC
 GAGATGCACACAAGAGTGAGTTGCTCATCGGTTTAAAGATTTGGGAGAAGAAAATTTCAAAGCCTTGGT
 GTTGATTGCCTTTGCTCAGTATCTTCAGCAGTGTCCATTTGAAGATCATGTAAAATTAGTGAATGAAGTA
 ACTGAATTTGCAAAAACATGTGTTGCTGATGAGTCAGCTGAAAATTGTGACAAATCACTTCATACCCCTTT
 TTGGAGACAAATTATGCACAGTTGCAACTCTTCGTGAAACCTATGGTGAATGGCTGACTGCTGTGCAAA
 ACAAGAACCTGAGAGAAATGAATGCTTCTTCAACACAAAGATGACAACCCAAACCTCCCCGATTGGTG
 AGACCAGAGGTTGATGTGATGTGACTGCTTTTCATGACAATGAAGAGACATTTTGA AAAAATACTTAT
 ATGAAATTGCCAGAAGACATCCTTACTTTTATGCCCGGAACTCCTTTTCTTTGCTAAAAGGTATAAAGC
 TGCTTTTACAGAATGTTGCCAAGCTGCTGATAAAGCTGCCTGCCGTTGCCAAAGCTCGATGAATTCGG
 GATGAAGGGAAGGCTTCGCTGCAAAACAGAGACTCAAGTGTGCCAGTCTCCAAAATTTGGAGAAAGAG
 CTTTCAAAGCATGGGCAGTAGCTCGCCTGAGCCAGAGATTTCCCAAAGCTGAGTTTGCAAGATTTCCAA
 GTTAGTGACAGATCTTACCAAAGTCCACACGGAATGCTGCCATGGAGATCTGCTTGAATGTGCTGATGAC
 AGGGCGGACCTTGCCAAGTATATCTGTGAAAATCAAGATTCGATCTCCAGTAAACTGAAGGAATGCTGTG
 AAAAACCTCTGTTGAAAAATCCCACTGCATTGCCGAAGTGAAAATGATGAGATGCCTGCTGACTTGCC
 TTCATTAGCTGCTGATTTTGTGAAAGTAAGGATGTTTGCAAAAATGCTGAGGCAAGGATGTCTTC
 CTGGGCATGTTTTGTATGAATATGCAAGAAGGCATCCTGATTACTCTGTCGTGCTGCTGCTGAGACTG
 CCAAGACATATGAAACCACTCTAGAGAAGTCTGTGCCGCTGCAGATCCTCATGAATGCTATGCCAAAGT
 GTTCGATGAATTTAAACCTCTTGTGGAAGAGCCTCAGAATTTAATCAAACAAAATTTGTAGCTTTTTGAG
 CAGCTTGAGAGTACAAATCCAGAATGCGCTATTAGTTCGTTACACCAAGAAAGTACCCCAAGTGTCAA
 CTCCAACCTTGTAGAGGCTCAAGAAACCTAGGAAAAGTGGGCAGCAAATGTTGTAAACATCCTGAAGC
 AAAAAGAATGCCCTGTGCAGAAGACTATCTATCCGTGGTCTGAACCAAGTATGTGTGTTGCATGAGAAA
 ACGCCAGTAAAGTACAGAGTACCAAATGCTGCACAGAATCCTTGGTGAACAGGCGTCCATGCTTTTCAG
 CTCTGGAAGTCGATGAAACATACGTTCCCAAAGAGTTAATGCTGAAACATTACCTTCCATGCAGATAT
 ATGCACACTTTCTGAGAAGGAGAGACAAATCAAGAAACAAACTGCACTTGTGAGCTCGTGAACACAAG
 CCCAAGGCAACAAAAGAGCAACTGAAAGCTGTTATGGATGATTTTCGAGCTTTTGTAGAGAAGTGTGCA
 AGGCTGACGATAAGGAGACCTGCTTTGCCGAGGAGGGTAAAAAATTGTTGCTGCAAGTCAAGCTGCCTT
 AGGCTTA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG205943 representing NM_000477
 Red=Cloning site Green=Tags(s)

MKWVTFISLLFLFSSAYSIRGVFRDRAHKSEVAHRFKDLGEENFKALVLI AFAQYLQQCPFEDHVKLVNEV
 TEFAKTCVADESAENCDKSLHTLFGDKLCTVATLRETYGEMADCCAKQEPERNECF LQHKDDNPNL PRLV
 RPEVDVMCTAFHDNEETFLKKYL YEIARRHPYFYAPELLFFAKRYKAAFTECCQAADKAACLLPKLDEL R
 DEGKASSAKQRLKASLQKFGERAFAKAWAVARLSQRFPKAEFAEVSKLVTDLTKVHTECCHGDLLCADD
 RADLAKYICENQDSISSKLECKEPLLEKSHCIAEVENDEMPADLPSLAADFVESKDVCKNYAEAKDVF
 LGMFLYEYARRHPDYSVLLLR LAKTYETTLKCCAAADPHECYAKVFDEFKPLVEEPQNL IKQNCELFE
 QLGEYKFNALLVRYTKKVPQVSTPLVEVSRNLGKVGSKCKKHPKAEKRMPCAEYLSVVLNQLCVLHEK
 TPVSDRVTKCCTESLVNRRPCFSALEVDETYVPKEFNAETFTFHADICTLSEKERQIKKQATALVELVKHK
 PKATKEQLKAVMDDFAAFVEKCKADDKETCF AEEGKLVVAASQAALGL

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_000477

ORF Size: 1827 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_000477.3](#), [NP_000468.1](#)

RefSeq Size: 2215 bp

RefSeq ORF: 1830 bp

Locus ID: 213

UniProt ID: [P02768](#)

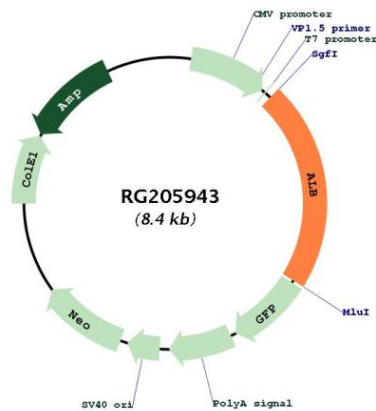
Cytogenetics: 4q13.3

Domains: ALBUMIN

Protein Families: Secreted Protein

Gene Summary: This gene encodes the most abundant protein in human blood. This protein functions in the regulation of blood plasma colloid osmotic pressure and acts as a carrier protein for a wide range of endogenous molecules including hormones, fatty acids, and metabolites, as well as exogenous drugs. Additionally, this protein exhibits an esterase-like activity with broad substrate specificity. The encoded preproprotein is proteolytically processed to generate the mature protein. A peptide derived from this protein, EPI-X4, is an endogenous inhibitor of the CXCR4 chemokine receptor. [provided by RefSeq, Jul 2016]

Product images:



Circular map for RG205943