

OriGene Technologies, Inc.

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Product datasheet for RC209129L4V

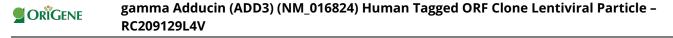
gamma Adducin (ADD3) (NM_016824) Human Tagged ORF Clone Lentiviral Particle

Product data:

Symbol:gamma AdducinSymonyms:ADDL; CPSQ3Mammalian CellPuromycinSelection:PuromycinVector:pLenti-C-mGFP-P2A-Puro (PS100093)Tag:mGFPACCN:NM_016824ORF Size:2118 bpORF NucleotideThe oRF insert of this clone is exactly the same as(RC209129).Sequence: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 infoOTI Annotation:This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.RefSeq:NM 016824.3RefSeq ORF:2121 bpLocus ID:120	Product Type:	Lentiviral Particles
Synonyms:ADDL; CPSQ3Mammalian Cell Selection:PuromycinSelection:pLenti-C-mGFP-P2A-Puro (PS100093)Tag:mGFPACCN:NM_016824ORF Size:2118 bpORF Nucleotide Sequence:The ORF insert of this clone is exactly the same as(RC209129).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 infoOTI Annotation:This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.RefSeq:NM 016824.3RefSeq ORF:2121 bpLocus ID:120	Product Name:	gamma Adducin (ADD3) (NM_016824) Human Tagged ORF Clone Lentiviral Particle
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RefSeq ORF: 2121 bp Locus ID: 120	RefSeq:	<u>NM 016824.3</u>
Locus ID: 120	RefSeq Size:	4454 bp
	RefSeq ORF:	2121 bp
UniProt ID: <u>Q9UEY8</u>	Locus ID:	120
	UniProt ID:	<u>Q9UEY8</u>
Cytogenetics: 10q25.1-q25.2	Cytogenetics:	10q25.1-q25.2
Domains: Aldolase_II	Domains:	Aldolase_II
MW: 79.2 kDa	MW:	79.2 kDa



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Adducins are heteromeric proteins composed of different subunits referred to as adducin Gene Summary: alpha, beta and gamma. The three subunits are encoded by distinct genes and belong to a family of membrane skeletal proteins involved in the assembly of spectrin-actin network in erythrocytes and at sites of cell-cell contact in epithelial tissues. While adducins alpha and gamma are ubiquitously expressed, the expression of adducin beta is restricted to brain and hematopoietic tissues. Adducin, originally purified from human erythrocytes, was found to be a heterodimer of adducins alpha and beta. Polymorphisms resulting in amino acid substitutions in these two subunits have been associated with the regulation of blood pressure in an animal model of hypertension. Heterodimers consisting of alpha and gamma subunits have also been described. Structurally, each subunit is comprised of two distinct domains. The amino-terminal region is protease resistant and globular in shape, while the carboxy-terminal region is protease sensitive. The latter contains multiple phosphorylation sites for protein kinase C, the binding site for calmodulin, and is required for association with spectrin and actin. Alternatively spliced adducin gamma transcripts encoding different isoforms have been described. The functions of the different isoforms are not known. [provided by RefSeq, Jul 2008]

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