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Product datasheet for SC216017

C9orf72 (NM_018325) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	C9orf72 (NM_018325) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	C9orf72
Synonyms:	ALSFTD; DENND9; DENNL72; FTDALS; FTDALS1
ACCN:	NM_018325
Insert Size:	1720 bp

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Insert Sequence:

>SC216017 3'UTR clone of NM_018325
The sequence shown below is from the reference sequence of NM_018325. The complete sequence of this clone may contain minor differences, such as SNPs.
Blue=Stop Codon Red=Cloning site

GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
CAAGAACGAGATGTTCTAATGACTTTTTAAATGTGTAACTTAATAAGCCTATTCCATCACAATCATGAT
CGCTGGTAAAGTAGCTCAGTGGTGTGGGGAAACGTTCCCCTGGATCATACTCCAGAATTCTGCTCTCAG
CAATTGCAGTTAAGTAAGTTACACTACAGTTCTCACAAGAGCCTGTGAGGGGATGTCAGGTGCATCATT
ACATTGGGTGTCTCTTTTCCTAGATTTATGCTTTTGGGATACAGACCTATGTTTACAATATAATAAATA
TTATTGCTATCTTTTAAAGATATAATAATAGGATGTAAACTTGACCACAACTACTGTTTTTTTGAAATA
CATGATTCATGGTTTACATGTGTCAAGGTGAAATCTGAGTTGGCTTTTACAGATAGTTGACTTTCTATC
TTTTGGCATTCTTTGGTGTGTAGAATTACTGTAATACTTCTGCAATCAACTGAAAACTAGAGCCTTTAA
ATGATTTCAATTCCACAGAAAGAAAGTGAGCTTGAACATAGGATGAGCTTTAGAAAGAAAATTGATCAA
GCAGATGTTTAATTGGAATTGATTATTAGATCCTACTTTGTGGATTTAGTCCCTGGGATTCAGTCTGTA
GAAATGTCTAATAGTTCTCTATAGTCCTTGTTCCTGGTGAACCACAGTTAGGGTGTTTTGTTTATTTTA
TTGTTCTTGCTATTGTTGATATTCTATGTAGTTGAGCTCTGTAAAAGGAAATTGTATTTTATGTTTTAG
TAATTGTTGCCAACTTTTTAAATTAATTTTCATTATTTTTGAGCCAAATTGAAATGTGCACCTCCTGTG
CCTTTTTTCTCCTTAGAAAATCTAATTACTTGGAACAAGTTCAGATTTCACTGGTCAGTCATTTTCATC
TTGTTTTCTTCTTGCTAAGTCTTACCATGTACCTGCTTTGGCAATCATTGCAACTCTGAGATTATAAAA
TGCCTTAGAGAATATACTAACTAATAAGATCTTTTTTTCAGAAACAGAAAATAGTTCCTTGAGTACTTC
CTTCTTGCATTTCTGCCTATGTTTTTGAAGTTGTTGCTGTTTGCCTGCAATAGGCTATAAGGAATAGCA
GGAGAAATTTTACTGAAGTGCTGTTTTCCTAGGTGCTACTTTGGCAGAGCTAAGTTATCTTTTGTTTTC
TTAATGCGTTTGGACCATTTTGCTGGCTATAAAATAACTGATTAATATAATTCTAACACAATGTTGACA
TTGTAGTTACACAAACACAAATAAATATTTTATTTAAAATTCTGGAAGTAATATAAAAGGGAAAATATA
TTTATAAGAAAGGGATAAAGGTAATAGAGCCCTTCTGCCCCCCACCCACCAAATTTACACAACAAAATG
ACATGTTCGAATGTGAAAGGTCATAATAGCTTTCCCATCATGAATCAGAAAGATGTGGACAGCTTGATG
TTTTAGACAACCACTGAACTAGATGACTGTTGTACTGTAGCTCAGTCATTTAAAAAATATATAAATACT
ACCTTGTAGTGTCCCATACTGTGTTTTTTACATGGTAGATTCTTATTTAAGTGCTAACTGGTTATTTTC
TTTGGCTGGTTTATTGTACTGTTATACAGAATGTAAGTTGTACAGTGAAATAAGTTATTAAAGCATGTG
TAAACATTGTTATATATCTTTTCTCCTAAATGGAGAATTTTGAATAAAATATATTTGAAATTTT
ACGCGTAAGCGGCCGCGGCATCTAGATTCGAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTTCGATTCCACCGCCGCCTTCTATGAAAGG

Restriction Sites: SgfI-MluI

OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences , e.g., single nucleotide polymorphisms (SNPs).

Components: The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

RefSeq: NM_018325.5

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Summary:	The protein encoded by this gene plays an important role in the regulation of endosomal trafficking, and has been shown to interact with Rab proteins that are involved in autophagy and endocytic transport. Expansion of a GGGGCC repeat from 2-22 copies to 700-1600 copies in the intronic sequence between alternate 5' exons in transcripts from this gene is associated with 9p-linked ALS (amyotrophic lateral sclerosis) and FTD (frontotemporal dementia) (PMID: 21944778, 21944779). Studies suggest that hexanucleotide expansions could result in the selective stabilization of repeat-containing pre-mRNA, and the accumulation of insoluble dipeptide repeat protein aggregates that could be pathogenic in FTD-ALS patients (PMID: 23393093). Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2016]
Locus ID:	203228
MW:	67.7

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