

Product datasheet for **SC215453**

DENND3 (NM_014957) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	DENND3 (NM_014957) Human 3' UTR Clone
Symbol:	DENND3
Mammalian Cell Selection:	Neomycin
Vector:	pMirTarget (PS100062)
ACCN:	NM_014957
Insert Size:	1601 bp



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Insert Sequence:	>SC215453 3'UTR clone of NM_014957 The sequence shown below is from the reference sequence of NM_014957. The complete sequence of this clone may contain minor differences, such as SNPs. Blue=Stop Codon Red=Cloning site
	<pre> GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAGGCCAAGAAGGGCGGAAAGATCGCCGTG TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC GGGAAAGTCGCCATTTGGAAAGGCGAATAAACGTGGCTGAGTCTGCCAAGTGGAAGTGTGCCCTATGTG TGGGGAAGTGGCTGCCCTTAGAGCTGCCAGGAGCAGAAGCCTGGAGGGTGGCAGGGCAGAGCAGCCC AGGCTCAGCATGGAGCCCACTTACCGTGTGGCAGCCGCGAGACCATGGCCACGCACCTTCTCTCAGG CCTTCGGGCCCCCTGGTTAACTGCACCAAGGGTGTTCCTGTTGGGGTGTGTCTCAGGCAGGCAGCTG CGTCTTGTGGTATAACCTCTGCTGGGAGGTTACTTTGTTGCCTAGAAAGTTCTGGAATCCACAACCA GGGGCTGGCACTGGAGCCAGCAGCTTGGCCGAGTCACAGGTGACCCGTGGCCCTCACGTCTCTGTTTTT ACCTTTCTTACTTATTCTTACTTCACTCACCCAGTCTTACGAATCACCGAGGAACACTGGGCTGAGCAC ATGACAGGGAGCCTGGAGCCCCGGGGCTCCAGCGAGGCTGAGAAGGGTGGTTCGGGTAAACCACTGTG GGCTCTCTCCCATCACAGAAGGTGGACAGGGCCTACCCAGGTGGAGGGGACCACCTGCGATCAGGTGT TTGCGACAGGGGTGGGCCAGCTGAGGCAAGCTGTCTTTTTTCCCTTTTCTTTTAAATAGATGCAACAT TTTTATAATAATCCTAGAGACCTTTTTTCTACCAAAGATCACAGACCAGAAAAAGTTCCATCTAAAAATA TCATGCCCAGGAAAGCACATGGGATCAAAAGTAAATAGCATCATGTGTGATCTCGTCTTCCAGCGTGC CGCTCAGTTCCCGAATCCGTGTGCACAGTGTGATCTCGTCTTCAAGTGTCCGCTCAGTTCCTGAAT CCGTGTGCACACTGCGTATGTGTACGCGCAGCATGCTATACTGAATCAACAAGATCTTGGCTGTACAT AAATATTTGTAAGAGACCCCTTGCACCTTTTACTGTAATGTTGAGACTTCATTACTTAAATGTTCT ACGGAAGGTTCTGGTGTGGTGTGGAGCCGAGGGAGCGTGTGACGACGTGCTGAGGGCATGGGGCCT GCCCCCTGGGCACCCATCCACAAGCTGGGCCACGAGCTCCAGCTTCTCAGGACAAAGCCCCGGGGCTG GCGCATCTGAGGCTCTGAGGGTGTGGGGTGTGGCCAGGCTCCTGGGATGGGCCGCTTTCAGAAGCCCTGCAG TGCTCCAGATGGAAAGGCGGGCCCGGCTCCGGTTGGGTCTGCATTTTGGAGAGTCCACACCACGGAC CAGGTTTTCCCCAAGGCTTGGCTTTGTGTAGCTACTAATTCTTGGGGCATTCTGAGAGTGTGGGCAG AGAGAATTATGTGCCTCATCTCCCCAAGGCTGTGCTTGACGCCCCGGGCACCTTCCCACTTTCTAGC TCTGGAGAGGTTGATTTTGTCTTTGTAACACATGAATCCTTATGATAAAAGTCTGTGAGTCAAAAAT ACATTTATAAATTATTTAATGCCAGTCTCATGTAACCTCAGGTATCTTCACTTGTGGAGAATAAATC TGGTTTAATAAACA ACGCGTAAGCGGCGCGGCATCTAGATTGGAAGAAATGACCGACCAAGCGACGCCAACCTGCCATCA CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG </pre>
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:	<u>NM_014957.5</u>

Summary:	Guanine nucleotide exchange factor (GEF) activating RAB12. Promotes the exchange of GDP to GTP, converting inactive GDP-bound RAB12 into its active GTP-bound form (PubMed:20937701). Regulates autophagy in response to starvation through RAB12 activation. Starvation leads to ULK1/2-dependent phosphorylation of Ser-472 and Ser-490, which in turn allows recruitment of 14-3-3 adapter proteins and leads to up-regulation of GEF activity towards RAB12 (By similarity). Also plays a role in protein transport from recycling endosomes to lysosomes, regulating, for instance, the degradation of the transferrin receptor and of the amino acid transporter PAT4 (PubMed:20937701). Starvation also induces phosphorylation at Tyr-858, which leads to up-regulated GEF activity and initiates autophagy (By similarity).[UniProtKB/Swiss-Prot Function]
Locus ID:	22898
MW:	58.2