

Product datasheet for **RG216141**

Dynein intermediate chain 2 (DNAI2) (NM_023036) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dynein intermediate chain 2 (DNAI2) (NM_023036) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DNAI2
Synonyms:	CILD9; DIC2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG216141 representing NM_023036
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGAGATTGTGTACGTGTACGTCAAGAAGCGCAGCGAGTTCGGGAAGCAGTGCAATTTCTCGGACCGCC
 AGGCCGAGCTGAACATCGACATCATGCCCAACCCTGAGCTGGCCGAGCAGTTCGTGGAGCGGAACCCAGT
 GGACACGGGCATCCAGTCTCGATCAGCATGTCCGGAACACGAGGCCAACTCAGAGCGTTTGAGATGAAG
 ACCCGGGGAGTTAACCATGTGAGGGGGGCTGGCCCAAGGACGTGAACCCCTGGAGCTGGAGCAGACCA
 TCCGTTTCCGGAAGAAAGTGGAGAAAGATGAGAACTACGTTAACGCCATCATGCAGCTCGGCTCTATCAT
 GGAGCACTGCATCAAGCAGAACAATGCCATTGACATCTATGAAGAGTATTTCAATGACGAGGAGGCCATG
 GAAGTGTGGAGGAGGCCCTTCAGCTAAAACCATCAATGTGTTTCAGGGACCCCAAGAAATCAAGAGGG
 CTGCCACACACCTCTCCTGGCACCCGATGGCAACAGGAAGTTGGCAGTGCATACTCCTGCTTGGATTT
 TCAGCGGGCACCTGTGGGCATGAGCAGCGATTCATACATCTGGGACCTGAAAACCCCAACAGCCTGAA
 CTTGCTCTGAAGCCATCGTCTCCACTCGTGACGTTGGAGTTCAACCCCAAGATCCCACGTAATCCTGG
 GTGGCTGTACAATGGACAGATAGCCTGTGGACACCCGAAAGGGCAGCCTGGTGGCGGAGCTATCCAC
 CATTGAGTCCAGCCACCGAGACCCTGTGTATGGCACCATCTGGCTGCAGTCGAAGACGGGCACCGAGTGC
 TTCTCAGCTTCCACGGATGGGCAGGTATGTGGTGGGACATCCGAAAGATGAGCGAGCCCACTGAAGTTG
 TGATCTTGGACATCACCAGAAGGAACAGTTGGAAAATGCCTTGGGGGCCATCTCCCTGGAGTTCGAATC
 TACTTTGCCACCAAGTTCATGGTGGGGACCGAGCAGGGCATCGTCATCTCCTGCAACCGCAAGGCCAAG
 ACGTCAGCTGAAAAGATTGTGTGCACCTTCCCGGGCCATCATGGCCCATCTACGCCCTCCAGAGAAACC
 CCTTCTACCCGAAGAATTCTGACGGTTGGCGACTGGACAGCCCGCATTTGGTCTGAAGACAGCCGGGA
 ATCGTCCATCATGTGGACCAAGTACCACATGGCTTACCTCACTGATGCTGCCTGGAGCCCGTGAGGCCG
 ACCGTTTTCTTTACCACAGGATGGACGGAACCCTGGATATCTGGGACTTCATGTTTCGAGCAGTGCATC
 CCACCCTCAGCTTGAAGGTGTGTGACGAGGCCCTCTTCTGCCTCCGGTGCAGGACAATGGGTGTCTCAT
 CGCCTGCGGCTCCAGCTGGGGACAACCACCTGCTGGAGGTCTCGCCTGGGCTCTTACCCTCCAGAGG
 AATGAGAAGAACGTAGCCTTTCCATGTTTGGCGTGAGACCCGGCGAGAGAAGATCCTGGAGGCCAGGC
 ACCGGGAGATGCGGCTGAAGGAGAAGGGTAAGGCGGAGGGCAGGGATGAGGAGCAGACCGATGAGGAGCT
 GGCCGTAGACCTGGAGGCGCTGGTCAAGGCCGAGGAGGAGTCTTCGACATCATCTTACAGAGCTG
 AAGAAGAAGGAGGAGACGCCATAAAGCTGACGCCAGTGCCTCAGCAACCAAGTCCAGAAGAAGACCAGG
 TGGTGGAGGAGGAGAGGAAGCAGCGGAGGAAGAAGGGGATGAAGAAGTGAAGAAGACTTAGCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG216141 representing NM_023036
 Red=Cloning site Green=Tags(s)

MEIVVYVYVYKRSSEFGKQCNFSDRQELNIDIMPPELAEQFVERNPVDTGIQCSISMSEHEANSERFEMK
 TRGVNHVEGGWPKDVNPLELEQTIRFRKKVEKDENVYVNAIMQLGSIMEHCIKQNNAIIDIEEYFNDEEAM
 EVMEEDPSAKTINVFRDPQEIKAATHLSWHPDGNRKLAVAYSCLDFQRAPVGMSSDSYIWDLENPNKPE
 LALKPSSPLVTLEFPKDSHVLGGCYNGQIACWDTRKGSVAELSTIESSHRDPVYGTIWLQSKTGTEC
 FSASTDGQVMWDIRKMSEPTVVILDIKKEQLENALGALSLEFESTLPTKFMVGTGQIVISCNRKAK
 TSAEKIVCTFPGHHGPIYALQRNPFYKPNFLTVGDWTARIWSEDSRESSIMWTKYHMAYLTDAAWSVPRP
 TVFFTTTRMDGTLDIWDFMFEQCPTLSLKVCDEALFCLRVQDNGCLIACGSQGLGTTTTLLEVSPGLSTLQR
 NEKNVASSMFERETRREKILEARHREMLKKEGKAEGRDEEQTDEELAVDLEALVSKAEFFFDIIFTEL
 KKEKADAIKLTPVPQQPSPEEDQVVEEGEEAAEEEGDEEVEEDLA

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

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_023036.1 , NP_075462.1
RefSeq Size:	2497 bp
RefSeq ORF:	1818 bp
Locus ID:	64446
UniProt ID:	Q9GZS0
Cytogenetics:	17q25.1
Protein Pathways:	Huntington's disease
Gene Summary:	The protein encoded by this gene belongs to the dynein intermediate chain family, and is part of the dynein complex of respiratory cilia and sperm flagella. Mutations in this gene are associated with primary ciliary dyskinesia type 9. Alternatively spliced transcript variants encoding different isoforms have been noted for this gene. [provided by RefSeq, Mar 2010]