

Product datasheet for **SC305426**

DRC7 (NM_032269) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	DRC7
Synonyms:	C16orf50; CCDC135; CFAP50; FAP50
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



Fully Sequenced ORF:

>SC305426 representing NM_032269.

Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAAATTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAGGTCTGAGGGAGAAGGTGGAGGAGGAGGAGGCCGAGCGGGAGGAGGCCGCGAGTGGGCT
GAATGGCGGAGGATGGAGAAATGATGAGGCCAGTTGAGGTGCGGAAGGAGGAAATCACCTTAAAGCAG
GAGACGCTCAGAGACCTGGAGAAGAAGCTGTCAGAGATCCAGATCACTGTCTCAGCGGAGCTCCCGGCC
TTTACCAAGGACACTATTGACATCTCCAAGCTGCCATTTCCTACAAAACCAACACACCCAAAGGAGGAA
CACCTGCTGCAAGTGGCAGACAATCTCCCGCCAGTACAGCCATCTGTGCCCGGACCGGTGCCCTC
TTCTGACACCCCTGAACGAGTGTGAAGTGCCCAAGTTCGTGAGCACAACCTCCGGCCACACTGATG
CCCTACCCCGAGCTCTACAAGTGGGACAGCTGTGCCAGTTTGTCTCCGACTTCTCACCATTGGTGCC
CTGCTGACCTCTCAAGCCGCCCTCGCACCTGTACTCTCGACCACTGTGCTCAAGTACCAGAAGGGG
AACTGCTTTGACTTCAGTACGCTGCTGCTCCATGCTTATCGGCTCTGGCTATGATGCTTACTGCGTC
AACGGTACGGCTCGTGGACCTGTCCACATGGACCTGACGCGGAGGTGTGCCCACTCACTGTGAAG
CCCAAGGAGACCATCAAGAAGGAGGAAAAGGTGCTGCCAAGAAATATACCATCAAAACCCCGAGGAC
CTGTGACGAGGTTTGAAGGAGCAAGAGGTGAAGAAGCAGCAGGAGATCAGAGCCAGGAGAAGAAG
CGGTGAGGGAGGAGGAGGAGCGCTCATGGAAGCGGAGAAGGCAAGCCGGATGCCCTGCACGGCTG
CGGTGCACTCCTGGTCTTGTGCTATCGGGGAAGCGGAGGTGCCTGAGAACTTCTTCATCGACCCA
TTCACAGGACATAGCTACAGCACCCAGGATGAGCACTTCTGGGCATCGAAAGCCTGTGGAACCAAG
AACTACTGGATCAACATGCAGGATTGCTGGAAGTGTGCAAGGACTTGATCTTTGACCTGGGTGACCCT
GTGAGATGGGAGTACATGCTCCTGGGACTGATAAGTCTCAGCTGTCTTGACTGAAGAAGACGACAGT
GGGATAAACGATGAGGATGATGTGAAAAATCTGGGCAAGGAGGATGAGGATAAGAGCTTCGACATGCCC
CACTCGTGGGTGGAGCAGATTGAGATCTCCCGGAAGCATTTGAGACCCGCTGCCGAACGGGAAGAAG
GTGATTCAGTACAAGAGGGCAAAGCTGGAGAAGTGGGCCCCGTACCTCAATAGCAATGGCCTTGTGAGC
CGCCTACCCACCTATGAGGACTTGCAAGTACCAATATTTTGGAGATAAAGGAGTGGTACCAGAACCGG
GAAGACATGCTGGAGCTGAAACACATAAACAAGACCACAGACCTGAAGACAGACTACTTCAAGCTGGC
CACCCCGAGGCTCTGCGCGTGCACTCGTACAAGTCCATGCAACCTGAGATGGACCGTGTCAATTGAGTTT
TATGAAACGGCCCCGTGTGGATGGCCTGATGAAGCGGGAGGAGACACCCAGGACAATGACAGAGTACTAT
CAAGGACGCCAGACTTCTCTCTACCGCCATGCCAGCTTCGACCCCGAGTCAAGAAGCTCACTCTG
AGCAGTGCAGAGTCAAACCCCGGCCATTGTGAAAAATCACAGAGCGGTTCTTCGCAACCCAGCGAAG
CCCGCGGAGGAGGAGCGTGGCAGAGCGCGTGTTCGTGTCGCGGAGGAGCGCATCCAGCTGCGCTACCAC
TGCCGTGAGGACCACATCACGGCCTCCAAGCGCGAGTTCTGCGGCGCACCGAGGTGGACAGCAAAGGC
AACAAGATCATCATGACGCCGACATGTGCATCAGCTTCGAGGTGGAGCCATGGAGCACACCAAGAAG
CTGCTCTACCACTACGAGGCCATGATGCACCTGAAGAGGGAGGAGAAGCTGTCCAGACATCAGGTCTGG
GAGTCAGAGCTGGAGGTGCTGGAGATTCTGAAGCTTCGAGAGGAAGAGGAGGCGCGCACACACTGACC
ATCTCCATCTATGACACCAAGCGGAATGAGAAGAGCAAGGAATATCGGGAGGCCATGGAGCGCATGATG
CACGAAGAGCACCTGCGGCGAGGTGGAGACCGAGTGGACTACCTGGCCCCATTCTGGCCAGCTCCCG
CCAGGAGAGAACTAACATGCTGGCAGGCGGTGCGCTCAAGGATGAGTGCCTCAGCGACTTCAAGCAG
CGGCTCATCAACAAGGCCAACCTCATCCAGGCCCGCTTTGAGAAGGAGACCCAGGAGCTGCAAAAGAAG
CAGCAGTGGTACCAGGAGAACCAGGTGACGCTGACACCCGAGGATGAAGACCTGTACCTGAGTTACTGC
TCTCAGGCCATGTTCCGCATCCGCATCCTGGAGCAGCGCTCAATCGACACAAGGAAGTGGCCCCACTG
AAGTACCTGGCTCTGGAGGAAAAGCTCTACAAGGACCCACGCTGGGGAGCTCCAGAAAAATTTCGT
TGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:

Sgfl-Mlul

ACCN:

NM_032269

Insert Size:

2625 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_032269.5
RefSeq Size:	2926 bp
RefSeq ORF:	2625 bp
Locus ID:	84229
UniProt ID:	Q8IY82
Cytogenetics:	16q21
MW:	103.5 kDa
Gene Summary:	Component of the nexin-dynein regulatory complex (N-DRC) a key regulator of ciliary/flagellar motility which maintains the alignment and integrity of the distal axoneme and regulates microtubule sliding in motile axonemes. Involved in the regulation of flagellar motility. [UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (2) differs in the 5' UTR, compared to variant 1. Both variants 1 and 2 encode the same isoform (a).