

## Product datasheet for **RR213476**

### **Dnaaf5 (NM\_001134857) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Dnaaf5 (NM_001134857) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dnaaf5
Synonyms:	Heatr2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR213476 representing NM\_001134857  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGCGCCGGCGGAGGCGGAGGTGGCCGGGCTTCGCCAGGCGGATGAAGCAGCGGAACAGCC  
 GCGCGCTAGGTCGTCTGTACCGGGACTGGAGACCGAAAAGTAAGCTGGGGCGCGCGCGCTGGAAGC  
 TCTGGAGCAGCACTGGAAGAGGCGGTGCGGCCCGGAACGGATTCCGCTGCCTCCAGGGCCATGGGCT  
 CGTCTGCTGCTGCCTCGCTGCTGCGACTTCTGACCGACCCAGCCGAGGGCTGCCGCGCGCTGGCTGCTC  
 ACCTGCTGGACTTAGGCCTTCGCCGTGCCGCGCGCCCGCGATGCTCTGCCGCGCTGTTGCCGCGCT  
 CACCGCACGCCTGCCCGACCAGAATCCACGCGGCCACCGCTGAACCTGCGAAGAGCTGCGTCTTGCC  
 CTGTCGCAACTGCTTACCTGGCCGTGGACCTGGGCGCGCCGCGCTCGCGCCACCTGGACGACGCGG  
 TGCGCGCTTGGGGGTGCGCTGCTCGACCCCTTCGCCGCGGTGCGCCGGGAGGGTTGCGAGTGCACGC  
 CGCTCTGGCGCGTCCATTCCGGAGCACTTCCACATGCAGTCGGAGTCCCTCATAGGCCCTGATGCAG  
 ACCATCTCCCACAGCACTGGAAGGTCCGGTAGCTGTCATCGAAGCCACAGGCACTGTAATCCAGTTTG  
 GCAATGGGAATTCGGTGGATGATGTTCTTTCCACTTTGCTCAAAGACTTTCGATGATGTCCTCAGGT  
 CCGGCAGGCAGTGACCTCGGTGGTGGGGGATGGCTGCTCAATCTCCGTGACCGATACTCCTTTTTCAC  
 AAACCTACCCCACTGTTACTCAGCAGCTTCACTGACGAAATGCCTGAGGTCCGACAGACGCCACCAGCC  
 TCTGGGAGAAGGTCGGCTGCACTGGCAGGAGGAAAATGAGGCAGATCTAAAGGACAAGCTGGACTTTGC  
 TTCACCTCCTCCTAACTACCTGAGCAGGAGCCGCTCCGGCTGGGCTGCCGAGAGCTGGTCTTC  
 AGGAACCTCTCAAGGTGCTTCTGCCATCTGTACGATATCACCGACTGGTGGTGGGACCCGGCTGA  
 AGGCAGCGCAGCTGCTGCCGGTGTGCTGTCATGCAGAGGACCACATCACACAGCACCCTGGAGATCGT  
 CCTCAGAACCCTGCATCAGGCGTGCACCGATGAGGAGAAGGCTGTGGTCAAGCAGCTGCGTGAGAGCCGA  
 GAGCTCATTGGCACCTTCGTGAGCCAGAAATTTCTGAAACTGATCTTAGCCATGCTGAAGAAAGCAC  
 CCTCGGCCTCTGGCTCTTGATCCTTGCTTGTGTCATCCGAGGCTGTCCCGCAATGCCCTTCAGCCACA  
 CCTCAAGGTCATAGCCACAGAGCTGGCCAGGAGCACATCTGCCAGGGTCTGAGAATAATAGCTACCTG  
 GAGCATCTGCTGTGTGTGTCAGACTCTGCTGTGTGTGTGTCAGGAAGACTGCTGTGCTGCCAGCTGC  
 AGCTCTCGGAGGTGCTGGTGACAATAATGGCAGTCTCAGATGCCGTGAGTCTTGAGAAGAAGGCTCAGAA  
 GACCATGGACACCCTGGCTGAGGTGGAGGATATCCCAGCAGTCAGGACCTTACCGCAAGCATCTGGGT  
 GCACTACTGGAACGGCTGACAGCCTCTCATGGCAGTGGACGGTGCACCTGTGTCAGCTGCTGAAGTTCA  
 CTGTGCTCCTCACCCAGGACAGGCCAGCTGTGGGAGAGGCTCTGCAGCATGTGATCCCACTCTCAGGGC  
 CTGTCTCCAGCCACCACAGACCACACATGCGCCTGAAGCTTCTCTATCCTGTCTTATTGCTGCTG  
 AGGCCTAAGGACACCGTCGACTCTCAGGGACAGTTCATGGCTACTTGGATATGGTAATAAATGACATCC  
 TAGCCCCAACCTACAGTGGCATGCAGGACAGGACAGTGCAGCCATCCGGACGGCCACCATATCCTGTCT  
 GTGGGCACTTATCAGCAGTGCATCTTATCGGCCAAGCAGGTTCAAGAGGCACAGGAGACCCCTGATGCCA  
 CAAGTGTGGCCACGCTGGAGGACGACTCCCAGACCACACGCCTGATCTCCTGCCGATCATCAGCAGGT  
 TCCTCAAGAACTCAGGGGATACCATGGAGCCAGAGAAATTTCTCAAGGTCTATCCTGAGCTCTTGAAGCG  
 CCTAGATGATGTCTCAAATGACGTGAGAATGGCAGCTGCTTCCGCTTGTGTCACCTGGCTGAAGTGCATT  
 GAGAGCGTGGATGGGAAATCCGCTATCAGAGCAGCGTTCAAGTTCCTGTACAGGGAGCTGCTGGTCCACC  
 TGGATGACCCAGAAAGTGCCATCCAAGCACTGTGCTAGAAGTCTCAAGGAGGGCAGCGTCTGTTTCC  
 AGATGTGCTGGTGGGAGACGGAGGCTGTTGTCCACAAACACCGCTCAGCTACCTACTGCGAGCAGCTG  
 CTGCAGCATATGCAAACCATGGCTGCCGCTCGG

**ACCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR213476 representing NM\_001134857  
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MAAPAEAEVAAGFAEAEAAELTRALGRLLPGLTESKLGRRRALEALEHALEEAVRPGTDSAAFQGPWA  
 RLLLPRLLRLLTDPAEGRALAAHLLDLGLRRAARPRDALPRLPAL TARLARPESTRPPPECEELRLA  
 LVQLHLAVDLGGAALAPHLDDAVRALRGALLDPFAAVRREGCECAAALARAIPHFHMQSESLIGPLMQ  
 TISHQHWKVRVAVIEATGTVIQFNGNSVDDVLSHFAQRLFDDVPQVRQAVTSVVGWLLNLRDRYSFFH  
 KLTPLLLSSFSDMEPEVRQTATSLWEKVLQWQEENEADLKDCLDFASPPPNYPEHESRPLGCRELVF  
 RNLKVLPAICHDITDWVVGTRLKAAQLLPVLLHAEDHITQHLEIVLRTLHQACTDEEKAVVSSCVRAA  
 ELIGTFVSPEVFLKILAMLKKAPSAGLLILASVIRGCPRNALQPHLKVIATELAQEHICQSENNSYL  
 EHLLLCVQTLLSVCQEDCCAASLQLSEVLVTIMAVSDAVSLEKKAQKTMDTLAEVEDIPSSQDLYRKHLG  
 ALLERLTASHGEWTVHSVQLLKFVLLTQAGPAVGEALQHVIPTRACLQPTTDPHMRLKLFSSLLS  
 RPKDVTDSQGFHGYLDMVINDILAPNLQWHAGRATAAIRTATISCLWALISSDILSAKQVQEAQETLMP  
 QVLATLEDDSQTRRLISCRISRFKNSGDTMEPEKFLKVYPELLKRLDDVSNDRMAAASALLTWLKCI  
 ESDGKSAYQSSVQFLYRELLVHLDDPESAIQDTVLEVLKEGSVLPDVLVRETEAVVHKHRSATYCEQL  
 LQHMQTMAAAR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-Mlul

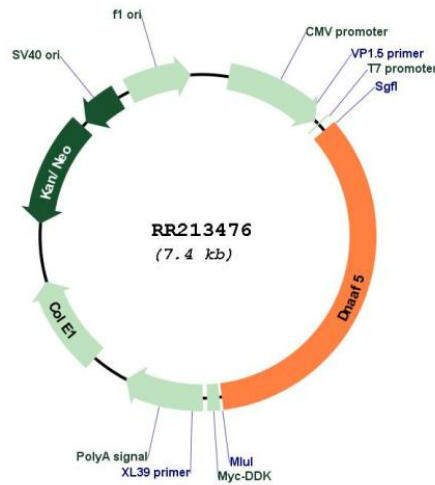
Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

Plasmid Map:



<b>ACCN:</b>	NM_001134857
<b>ORF Size:</b>	2553 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001134857.1</a> , <a href="#">NP_001128329.1</a>
<b>RefSeq Size:</b>	3417 bp
<b>RefSeq ORF:</b>	2556 bp
<b>Locus ID:</b>	304332
<b>Cytogenetics:</b>	12q11
<b>MW:</b>	93.8 kDa