

## Product datasheet for **RC203470**

### NUDT6 (NM\_007083) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NUDT6 (NM_007083) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NUDT6
Synonyms:	ASF2; FGF-AS; FGF2AS; GFG-1; GFG1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC203470 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGCGGCAGCCGCTGAGCTGGGGCCGCTGGCGCGCATGCTTGCCGAACCTACGGCCCCGGCCTTCGG  
CGGGTTACCGCTGGGCCTCGGGCGCACAGGGTTACGTGCGGAATCCGCCAGTTGGAGCGTGCATCTGCA  
GGGCGAGCTGGACAGATTCGGGGCATCTCGGTGCGCCTGGCGCGGCTCGATGCGCTGGACCGCCTGGAC  
GCTGCCGCTTCCAGAAGGGCTGCAGGCTGCAGTACAGCAATGGCGATCAGAAGGTAGAACAGCTGTAT  
GGCTGCACATCCCATCCTCCAAAGCCGATTTATTGCCCTGCTGCTTCCCTGGGCTTCTGCTTTCACCA  
CGCAGAATCGGATTCATCAACGTTGACTCTGTGGCTGAGAGAAGGCCACAGATTACCAGGATATGCT  
TCACATCAAGTAGGAGTTGCAGGAGCTGTATTTGATGAAAGTACTAGAAAATACTGGTTGTACAAGATC  
GAAATAAATTGAAAAATATGTGGAAGTTTCCAGGAGGCCGTGCAGAGCCTGAAGAAGATATTGGAGACAC  
AGCGGTTCCGAGAAGTTTTTGAAGAGACTGGTATAAAATCAGAATTCAGGTCGGTCCCTGAGTATTCGGCAA  
CAGCACACAAATCCTGGAGCTTTTGGGAAGTCAGATATGTATATCATCTGCCCTAAAGCCATATTCAT  
TCACCATAAATTTTCCAGGAAGAATGCTTAAGATGTGAGTGGATGATCTCAATGACCTGGCGAAGAC  
TGAAAAACAACCTCCATCACCAGCAGAGTTGCTAGGCTGCTGCTGTATGGGTACAGAGAAGGGTTTGAC  
AAAATTGACCTGACTGTGGAAGAATTCAGCAGTTTACAGGACTGTTTTATAAACTATCATAAGG  
AACTGCCAGAGAATTATAAACTATGAAAGGAATTGAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC203470 protein sequence  
Red=Cloning site Green=Tags(s)

MRQPLSWGRWRAMLARTYGGPSAGYRWASGAQGYVRNPPVGACDLQGE LDRFGGISVRLARLDALDRLD  
 AA AFQKGLQAAVQQRSEGR TAVWLHIPILQSRFIAPAASLGFCFHHAESDSSLTLWLREGPSRLPGYA  
 SHQVGVAGAVFDESTRKILVVQDRNKLNMWKFPGGLSEPEEDIGDTAVREVFEETGIKSEFRSVLSIRQ  
 QHTNPGAFGKSDMYIICRLKPYSFTINFCQEECLRCEWMDLNDLAKTENTPITSRVARLLLYGYREGFD  
 KIDLTV EELPAVYTGLFYKLYHKELPENYKTMKGID

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6056\\_g12.zip](https://cdn.origene.com/chromatograms/mk6056_g12.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_007083

**ORF Size:** 948 bp

**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:**

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\\_007083.2](#)

**RefSeq Size:** 1197 bp

**RefSeq ORF:** 951 bp

**Locus ID:** 11162

**UniProt ID:** [P53370](#)

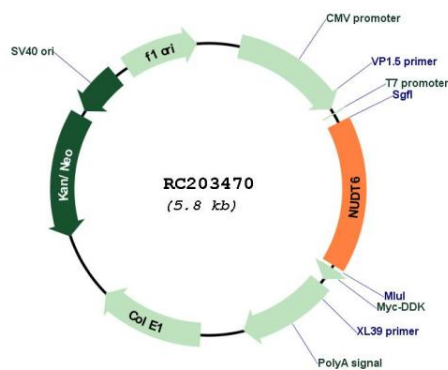
**Cytogenetics:** 4q28.1

**Domains:** NUDIX

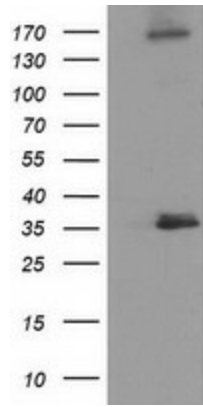
**MW:** 35.7 kDa

**Gene Summary:** This gene overlaps and lies on the opposite strand from FGF2 gene, and is thought to be the FGF2 antisense gene. The two genes are independently transcribed, and their expression shows an inverse relationship, suggesting that this antisense transcript may regulate FGF2 expression. This gene has also been shown to have hormone-regulatory and antiproliferative actions in the pituitary that are independent of FGF2 expression. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Oct 2011]

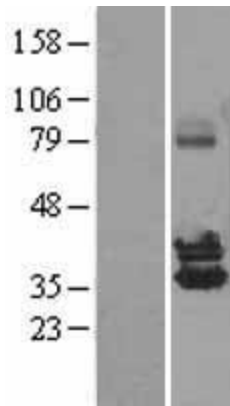
### Product images:



Circular map for RC203470



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY NUDT6 (Cat# RC203470, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-NUDT6(Cat# [TA502343]). Positive lysates [LY402086] (100ug) and [LC402086] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY402086]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203470 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NUDT6 protein (Cat# [TP303470]). The protein was produced from HEK293T cells transfected with NUDT6 cDNA clone (Cat# RC203470) using MegaTran 2.0 (Cat# [TT210002]).