

## Product datasheet for **RG207001**

### **NUP50 (NM\_153645) Human Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NUP50 (NM_153645) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NUP50
Synonyms:	NPAP60; NPAP60L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG207001 representing NM_153645 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCAGTGAGGAAGTCTTGAAGAATAGAGCCATAAAGAAAGCAAAGCGCAGAAATGTTGGATTTGAAT  
CTGACACTGGAGGAGCCTTTAAAGGTTTTAAAGGTTTGGTGTACCTTCTGGAGGAGGACGCTTTTCTGG  
ATTTGGTAGTGGCGCTGGAGGGAAGCCTTTGGAAGGACTGTGCAATGGAAACAACATAACCAGTGCCCT  
CCCTTCGCCAGTCAAAGGCAGCGGCAGATCCCAAGGTAGCCTTTGGTTCTCTTGCTGCAAAATGGCCCTA  
CCACCTTGGTTGATAAAGTTTCAAATCCCAAACTAATGGGGACAGTCAGCAGCCCTCCTCCTCTGGCCT  
TGCTTCCAGTAAAGCTTGTGTCGAAATGCCTATCACAAGCAGTTGGCCGCTTGAAGTGCCTCCGTGCGG  
GATTGGATAGTGAAGCACGTGAATACAAACCCCTCTGTGATCTGACACCTATCTTTAAAGACTATGAGA  
AATATTTAGCAAACATTGAACAGCAACACGGGAACAGTGGCAGGAATTCTGAAAGTGAATCTAACAAAGT  
GGCAGCTGAAACACAGTCTCCTTCCCTTTTGGCTCAACAAAATTACAGCAAGAGTCAACGTTTTTGT  
CATGGCAAAAACACTGAAGATACACCTGACAAGAAGATGGAGGTGGCATCTGAAAAGAAAACGGACCCAT  
CATCACTAGGAGCGACAAGTGCCTCATTAAATTCGGCAAGAAAGTTGATAGCTCTGTTTTGGGCTCATT  
AAGCTCTGTCCCCTGACTGGATTTTCTTCTCCCCTGGAACCCAGTTTATTTGGCAAAGATACTACC  
CAGAGTAAACCAGTCTCTCACCATTCCCACTAAACCATTGGAGGGCCAAGCAGAAGGTGACAGTGGTG  
AATGCAAAGGTGGAGATGAAGAAGAGAATGATGAGCCACCCAAAGTAGTGTACCGAAGTAAAAGAAGA  
AGATGCTTTTTACTCAAAGAGTAAACTGTTTTACAAGAAAGACAATGAGTTTAAAGAGAAAAGGCATA  
GGTACTCTGCATTTAAACCTACAGCAAATCAGAAGACACAGCTTTTGGTGCGGGCAGACACCAATTTAG  
GCAACATATTGCTGAACGTTCTGATTCCACCCAATATGCCATGTACGCGAACAGGGAAGAATAACGTTCT  
TATCGTCTGTGTTCCAAATCCACCAATTGACGAGAAGAATGCCACCATGCCAGTCACCATGTTGATTGCG  
GTA AAAACCGAGGATGCAGACGAGTTGCACAAAATTTACTGGAGAAAAGGATGCC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG207001 representing NM\_153645  
Red=Cloning site Green=Tags(s)

MASEEVLKNRAIKKAKRRNVGFESDTGGAFKGFKGLVVPSSGGGRFSGFGSGAGGKPLEGLSNGNITSAP  
 PFASAKAAADPKVAFGSLAANGPTTLVDKVSNPKTNGDSQQPSSSSGLASSKACVGNAYHKQLAALNCSVR  
 DWIVKHVNTNPLCDLTPIFKDYEKYLANIEQQHGNSGRNSESESNKVAETQSPSLFGSTKLQQESTFLF  
 HGNKTEDTPDKKMEVASEKKTDPSSLGATSASFNFGKKVDSSVLGSLSSVPLTGFSFSPGNSSLFGKDTT  
 QSKPVSSPFPTKPLEGQAEGDSGECKGGDEEENDEPPKVVVTEVKEEDAFYSKKCKLFYKKDNEFKEKGI  
 GTLHLKPTANQKTQLLVRADTNLGNILLNVLIPPMPCTRTGKNNVLIVCPNPPIDEKNATMPVTMLIR  
 VKTSEDADELHKILLEKKDA

TRTRPLE – GFP Tag – V

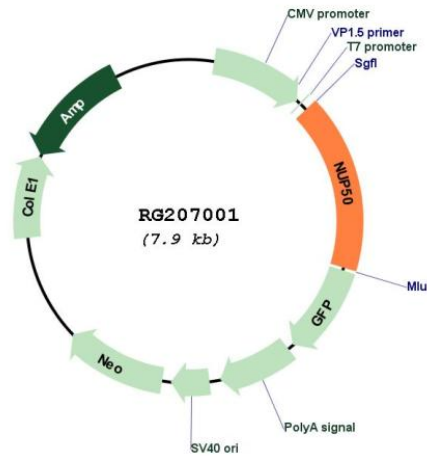
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:**

NM\_153645

<b>ORF Size:</b>	1320 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_153645.2</a> , <a href="#">NP_705931.1</a>
<b>RefSeq Size:</b>	5051 bp
<b>RefSeq ORF:</b>	1323 bp
<b>Locus ID:</b>	10762
<b>UniProt ID:</b>	<a href="#">Q9UKX7</a>
<b>Cytogenetics:</b>	22q13.31
<b>Protein Families:</b>	Stem cell - Pluripotency
<b>Gene Summary:</b>	The nuclear pore complex is a massive structure that extends across the nuclear envelope, forming a gateway that regulates the flow of macromolecules between the nucleus and the cytoplasm. Nucleoporins are the main components of the nuclear pore complex in eukaryotic cells. The protein encoded by this gene is a member of the FG-repeat containing nucleoporins that functions as a soluble cofactor in importin-alpha:beta-mediated nuclear protein import. Pseudogenes of this gene are found on chromosomes 5, 6, and 14. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]