

#### OriGene Technologies, Inc.

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# Product datasheet for RC224767

### Neurogenin3 (NEUROG3) (NM\_020999) Human Tagged ORF Clone

## **Product data:**

Product Type:	Expression Plasmids
Product Name:	Neurogenin3 (NEUROG3) (NM_020999) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Neurogenin3
Synonyms:	Atoh5; bHLHa7; Math4B; NGN-3; ngn3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>&gt;RC224767 representing NM_020999 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG**GTTTAA** 



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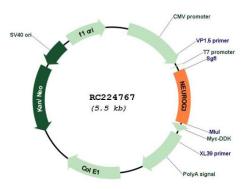
<b>ORIGENE</b> Neurogenin3 (NEUROG3) (NM_020999) Human Tagged ORF Clone – RC224767	
The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water	
<ul> <li>hod: 1. Centrifuge at 5,000xg 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 liquat the bottom.</li> <li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date or shipping when stored at -20°C.</li> </ul>	
Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.	
<u>NM 020999.4</u>	
1167 bp	
645 bp	
50674	
<u>Q9Y4Z2</u>	
10q22.1	
ES Cell Differentiation/IPS	
Maturity onset diabetes of the young	
22.9 kDa	
The protein encoded by this gene is a basic helix-loop-helix (bHLH) transcription factor involved in neurogenesis. The encoded protein likely acts as a heterodimer with another bHLH protein. Defects in this gene are a cause of congenital malabsorptive diarrhea 4 (DIAR4).[provided by RefSeq, May 2010]	

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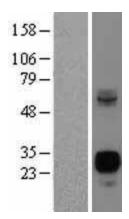
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### **Product images:**



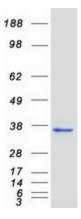
Circular map for RC224767



Western blot validation of overexpression lysate (Cat# [LY402827]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224767 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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Coomassie blue staining of purified NEUROG3 protein (Cat# [TP324767]). The protein was produced from HEK293T cells transfected with NEUROG3 cDNA clone (Cat# RC224767) using MegaTran 2.0 (Cat# [TT210002]).

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