

# Recombinant Full Length Human RAN, Member RAS Oncogene Family, His-tagged

**Cat. No.** RAN-2582H    **Lot. No.** (See product label)

## SPECIFICATION

### Product Overview

Recombinant Full Length human RAN, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

### Species

Human

### Source

E.coli

### ProteinLength

1-216 a.a.

### Description

RAN, member RAS oncogene family, also known as RAN, is a small GTPase of the Ras superfamily that controls nucleocytoplasmic transport. It is involved in the directionality of the process that is regulated by GTP hydrolysis. Ran shuttles between the nucleus and the cytoplasm. Unlike many other regulatory GTPases, Ran is not posttranslationally modified so that it can be targeted to the subcellular compartment where it acts. Rather, RanGTP has been thought to be localized by the differential localization of Ran regulators.

### Sequences

MGSSHHHHHH SSGLVPRGSH MAAQGEPQVQ FKLVLVGDGG TGKTTFVKRH  
 LTGEFEKKYV ATLGVEVHPL VFHTNRGPIK FNVWDTAGQE KFGGLRDGY  
 IQAQCAIIMF DVTSRVTYKN VPNWHRDLVR VCENIPIVLC GNKVDIKDRK  
 VKAKSIVFHR KKNLQYYDIS AKSNYNFEKP FLWLARKLIG DPNLEFVAMP  
 ALAPPEVMD PALAAQYEHD LEVAQTALP DEDDDL.

### Molecular Weight

26.5 kDa (236aa), confirmed by MALDI-TOF.

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol.
<b>Purity</b>	> 90% by SDS – PAGE.
<b>Concentration</b>	1mg/ml (determined by Bradford assay).
<b>Storage</b>	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	<a href="#">RAN RAN, member RAS oncogene family [ Homo sapiens ]</a>
<b>Synonyms</b>	RAN; RAN, member RAS oncogene family; GTP-binding nuclear protein Ran; GTPase Ran; OK/SW-cl.81; OTTHUMP00000166078; OTTHUMP00000166102; RanGTPase; androgen receptor-associated protein 24; guanosine triphosphatase Ran; member RAS oncogene family; ras-like protein TC4; ras-related nuclear protein; OK/SW-cl.81; ARA24; Gsp1; TC4
<b>Gene ID</b>	<a href="#">5901</a>
<b>mRNA Refseq</b>	<a href="#">NM_006325</a>
<b>Protein Refseq</b>	<a href="#">NP_006316</a>
<b>MIM</b>	<a href="#">601179</a>
<b>UniProt ID</b>	<a href="#">P62826</a>
<b>Chromosome Location</b>	12q24.3

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<b>Pathway</b>	HIV Infection; Influenza Infection; Regulatory RNA pathways
<b>Function</b>	GTP binding; GTPase activity; androgen receptor binding; chromatin binding; protein binding; transcription coactivator activity

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