

## Recombinant Human ACTG1 Protein, GST-tagged

Cat. No. ACTG1-216H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Human ACTG1 full-length ORF ( AAH53572, 1 a.a. - 375 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	Wheat Germ
<b>Description</b>	Actins are highly conserved proteins that are involved in various types of cell motility, and maintenance of the cytoskeleton. In vertebrates, three main groups of actin isoforms, alpha, beta and gamma have been identified. The alpha actins are found in muscle tissues and are a major constituent of the contractile apparatus. The beta and gamma actins co-exist in most cell types as components of the cytoskeleton, and as mediators of internal cell motility. Actin, gamma 1, encoded by this gene, is a cytoplasmic actin found in non-muscle cells. Mutations in this gene are associated with DFNA20/26, a subtype of autosomal dominant non-syndromic sensorineural progressive hearing loss. Alternative splicing results in multiple transcript variants.[provided by RefSeq, Jan 2011]
<b>Molecular Mass</b>	66.99 kDa
<b>AA Sequence</b>	MEEEIAALVIDNGSGMCKAGFAGDDAPRAVFPSIVGRPRHQGMVGMGQKDSYVG DEAQSKRGILTLKYPIEHGIVTNWDDMEKIWHHTFYNELRVAPEEHPVLLTEAPLNPK ANREKMTQIMFETFNTPAMYVAIQAVLSLYASGRTTGIVMDSGDGVTHTVPIYEGYA LPHAILRLDLAGRDLTDYLMKILTERGYSFTTTAEREIVRDIKEKLCYVALDFEQEMAT

 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

AASSSSLEKSYELPDGQVITIGNERFRCPEALFQPSFLGMESCGIHETTFFNSIMKCDV  
DIRKDLYANTVLSGGTTMYPGIADRMQKEITALAPSTMKIKIIPPERKYSVWIGGSILA  
SLSTFQQMWISKQEYDESGPSIVHRKCF


<b>Applications</b>	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
<b>Notes</b>	Best use within three months from the date of receipt of this protein.
<b>Storage</b>	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">ACTG1 actin, gamma 1 [ Homo sapiens ]</a>
<b>Official Symbol</b>	<a href="#">ACTG1</a>
<b>Synonyms</b>	ACTG1; actin, gamma 1; ACTG, deafness, autosomal dominant 20; deafness, autosomal dominant 26 , DFNA20, DFNA26; actin, cytoplasmic 2; cytoskeletal gamma-actin; ACT; ACTG; DFNA20; DFNA26;
<b>Gene ID</b>	<a href="#">71</a>
<b>mRNA Refseq</b>	<a href="#">NM_001199954</a>
<b>Protein Refseq</b>	<a href="#">NP_001186883</a>


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<b>MIM</b>	102560
<b>UniProt ID</b>	P63261

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