

Product datasheet for **RC224679**

ZFAND1 (NM_024699) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ZFAND1 (NM_024699) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	ZFAND1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC224679 representing NM_024699 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

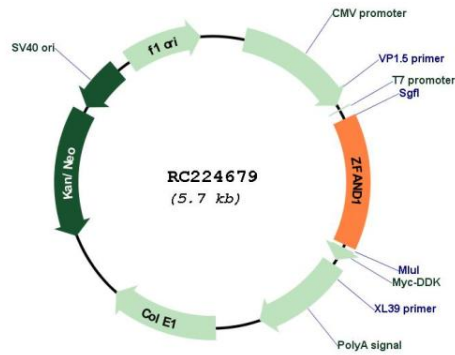
ATGGCGGAGTTGGACATCGGGCAGCACTGCCAGGTGGAGCATTGCCGGCAGCGAGATTTTCTTCCATTTG
TGTGTGATGATTGTTAGGAATATTTGCCTTGAACACAGAAGCAGGGAGTCTCATGGTTGCCTGAGGT
GACTGTAATCAATGAGAGACTGAAGACAGATCAACATACATCTTACCCATGCTCTTTCAAAGACTGTGCT
GAGAGAGAACTTGTGGCAGTTATATGTCCTTATTGTGAGAAGAATTTTGCCTGAGACACCGTCATCAGT
CAGATCATGAGTGTGAAAACTGGAAATCCCAAAGCCTCGAATGGCTGCCACTCAGAAACTGTTAAAGA
CATTATTGATTCCAAGACAGGAGAAACAGCAAGTAAACGATGGAAAGGTGCCAAAAATAGTGAAACAGCT
GCAAAGTTGCATTGATGAAATTAAGATGCATGCTGATGGCGATAAGTCATTACCACAGACAGAAAGAA
TTTACTTTTAGGTTTCTTACCTAAAGGGAGCAAAGAGAAGAGCAAACCAATGTTCTTTTCCACCGATG
GAGCATTGGAAAGGCCATAGACTTTGCCGCTTCTAGCCAGGCTTAAAAATGACAATAACAAATTTACA
GCTAAGAAATTAAGGCTGTGTACATTACTTCAGGAGAAGCCTTACCCTTGGATCATACTTTGGAAACCT
GGATTGCTAAGGAGGATTGCCTTTATATAATGGTGGAATATAATCTTGAATATCTTAATGATGAAGA
ACAATTCTGTAATAATGTTGAATCTTACTTGAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

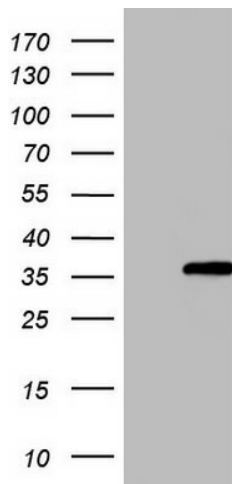


[View online »](#)

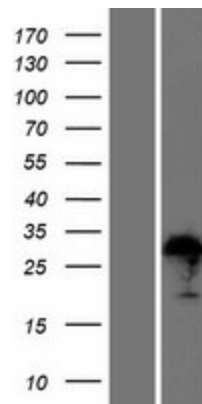
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) 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_024699.3
RefSeq Size:	1793 bp
RefSeq ORF:	807 bp
Locus ID:	79752
UniProt ID:	Q8TCF1
Cytogenetics:	8q21.13
Domains:	ZnF_AN1
MW:	30.6 kDa
Gene Summary:	Plays a role in the regulation of cytoplasmic stress granules (SGs) turnover. SGs are dynamic and transient cytoplasmic ribonucleoprotein assemblies important for cellular protein homeostasis when protein production is suspended after acute exogenous stress (PubMed:29804830). Associates with SGs and is involved in the efficient and specific arsenite-induced clearance process of SGs through the recruitment of the ubiquitin-selective ATPase VCP and the 26S proteasome (PubMed:29804830). This process requires both complexes for efficient degradation of damaged ubiquitinated SG proteins during recovery from arsenite stress, and hence avoiding aberrant cytoplasmic SGs degradation via autophagy (PubMed:29804830).[UniProtKB/Swiss-Prot Function]

Product images:


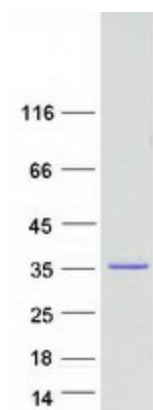
Circular map for RC224679



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY ZFAND1 (Cat# RC224679, 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-ZFAND1 antibody (Cat# [TA890008]). Positive lysates [LY411156] (100ug) and [LC411156] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY411156]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224679 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified ZFAND1 protein (Cat# [TP324679]). The protein was produced from HEK293T cells transfected with ZFAND1 cDNA clone (Cat# RC224679) using MegaTran 2.0 (Cat# [TT210002]).