

## Updated Conceptual Translation

Annotated Conceptual Translation of Human Zinc Finger Protein 839

gagtccccgcctcggccgccatggcggatgCGGagccggaggctgggggCGGcagcgag	59	
M A D A E P E A G G G S E	13	
gatggCGGcgggCGGcgggCGGccccggctcctccgggCCagagCGGcagcgtCGcagctgtg	119	
D G G G G G G P A P P G Q S G S V A R V	33	
gccccgctgggccccgagcagctgCGGcaggtcctggagcaggtgacgaaggCGcagccg	179	
A P L G P E Q L R Q V L E Q V T K A Q P	53	
CGCGCGCGCGCGCCCCcttcgtgctgCGGgacCGGCGGCGGCGGctgCGGgacCGGcc	239	
P P P P P P F V L R D A A R R L R D A A	73	
caacaggCGCGCctgcagCGGggCGGggcaccgagccccCGCctgCGCGCctgctc	299	
Q Q A A L Q R G R G T E P P R L P R L L	93	
CGCCCCagCaactagaagccatttTgtgTcaaggtaacgtctggagaaacaaaaggTcag	359	Exon 1-Exon 308
P P Q Q L E A I C V K V T S G E T K G Q	113	
gaaaggccaatgTctcctaccgaccacaatccagccccaaactgcaagaaagagccagctg	419	Start codon- isoform 2
E R P M L L P T T I Q P Q T A R K S Q L	133	DUF 123-920 start
ccccgggggaattcctgcctggTggggctccatatCGCCagccctcagctgctcagggta	479	
P R G N S C L V G L H I A S P Q L L R V	153	
cagCGCcttgTgagaaccgagCCacagTcctgcttcctaagtgacttatGCCaacctcct	539	
Q P L V R T E P Q S C F L S D L C Q P P	173	
gctcaggggtttgtacagagaccactGCCagccctccaggtggTccctgcaaagagagTc	599	
A Q G F V Q R P L P A L Q V V P A K R V	193	
ccagcccccaaggctccagatgaacagggtccatgTtgaccctttgtctgcctctgac	659	
P A P K A P D E Q G S M L T P L S A S D	213	
CGctggcagtaacatctctttcatccagTtcagcacatccatttattttccaacttgcat	719	
P L A V T S L S S S S A H P F I S N L H	233	
acaagacatactgagaaactaaaaaaaaatCGTtaaaagTaaagacacgttctggacgggta	779	
T R H T E K L K K S L K V K T R S G R V	253	
tctCGacctccaaaataTaaagctaaagattataagTtcataaaaaacagaggatctggcg	839	Polyadenelation Signal
S R P P K Y K A K D Y K F I K T E D L A	273	Pred Phosphorylation 1
gatggTcatctgtcagattctgatgattactcagaactctgtgtggaagaagatgaagat	899	
D G H L S D S D D Y S E L C V E E D E D	293	Pred Phosphorylation 2
cagagggagagGcagcactctttgacttatCGagctgctccctgaggGCCaaaagcttt	959	
Q R E R H A L F D L S S C S L R P K S F	313	

aagtgtcagacttgtgaaaagtcatatataggggaaggggggactggcccgacatttttaa	1019	Pred Phosphorylation 3
<b>K C Q T C E K S Y I G K G G L A R H F K</b>	333	Conserved Cys2 and His2
cttaaccacaggccacggccagttggaccccagatggtgctgtctgagaaagccagtgga	1079	
<b>L N P G H</b> G Q L D P E M V L S E K A S G	353	C2H2 Zinc finger
agcacctccgggggtgcacggaggaaaggacgctcagcctgacctccctggggctgtcc	1139	
S T L R G C T E E R T L S L T S L G L S	373	
atgccagcggatccatgtgagggagggggcccgctcctgcttggtgacagagtcagcacgc	1199	
M P A D P C E G G A R S C L V T E S A R	393	
ggtggcctgcagaaatgggtcagtctgtagacgttgaagagacattgccatctgaaccagaa	1259	Exon 309-Exon 1211
G G L Q N G Q S V D V E E T L P S E P E	413	
aatggagctcttttgcgatcagagagataccaaggacctagaagacgcgcatgctcagag	1319	
N G A L L R S E R Y Q G P R R R A C S E	433	
acccttgacagagtcccgcacagctgtcctccagcagagaagagctgctcagctacctggt	1379	
T L A E S R T A V L Q <b>Q R R A A Q L P G</b>	453	
ggccctgctgcggcaggggagcagagggcgctcgccaagcaaagccaggctcaaggagttc	1439	Exon 1212-Exon 1436
<b>G P A A A G E Q R A S P</b> ] S K A R L K E F	473	Disordered Region 1
ctccagcagtgtagccgggaggatctggtggaattggctctgcctcagctggctcaggtt	1499	
L Q Q C D R E D L V E L A L P Q L A Q V	493	
gtgaccgtgtatgagtttcttctgatgaaagttgaaaaagatcatctagcaaagcctttt	1559	Exon 1437-Exon 1529
V T V Y E F L L M K V E K D H L A K P F	513	
ttcccagctatatataaggaatttgaagagttgcataaaatggttaagaaaatgtgccaa	1619	Alpha-helix region
F P A I Y K E F E E L H K M V K K <b>M C Q</b>	533	Pred Phosphorylation 4
gattacctcagtagttctggtctgtgttcccaggagaccctggaaataaacaatgataag	1679	
<b>D Y L S S S</b> G L C S Q E T L E I N N D <b>K</b>	553	
gttgctgagtcattaggaatcacagaattcctacggaagaaagaaatacaccagacaac	1739	Exon 1530-Exon 1679
<b>V A E S L G I T</b> E F L R K K E I H <b>P D N</b>	573	Pred Phosphorylation 5
		Alpha-helix region
cttgaccacaagcacctcagccgagacatggatggggagcagctagagggagctagcagc	1799	
<b>L G P K H L S R D M D G E Q L E G A S S</b>	593	
gagaagagggaaacgtgaggctgcggaggaggactggcctcagtgaaaaggcccagaaga	1859	Exon 1680-Exon 1817
<b>E K R E R E A A E E G L A S V</b> <b>K R P R R</b>	613	Pat4 nuclear localization
gaagccctgtccaacgataccactgaatctcttgctgccaacagcagaggccgggagaag	1919	
<b>E A L S N D T T E S L A A N S R G R E K</b>	633	
cccaggcccttgcatgctttggccgctggtttttccctccagtaaattgtgactgtctct	1979	Exon 1818-Exon 1947
<b>P R P L H A L A A G F S P P V N V T V S</b>	653	

ccccgttctgaagaaagccatacaacgacggtttctggtggcaatgggagcgtgttccag	2039	
P R S E E S H T T T V S G G N G S V] F Q	673	Disordered Region 2
gcgggcccgagcttcaggcactggctaacttagaagccaggaggggtctataggtgct	2099	
A G P Q L Q A L A N L E A R R G S I G A	693	
gctctctcatccccgggatgtcagtgggctgcctgtttatgctcagtcaggagagcctag	2159	
A L S S R D V S G L P V Y A Q S G E P R	713	
aggctgaccaggcacaggtggcagcgtttcctggagagaatgctttggaacactcttca	2219	
R L T Q A Q V A A F P G E N [A L E H S S	733	
gaccaggacacctgggacagcctgaggagcccgggttctgcagccctttgtcatctggt	2279	
D Q D T W D S L R S P G F C S P L S S G	753	
ggtggagcagagtccttgcgcctggggggcctggacatgcagaggcaggacacctcggc	2339	
G G A E S L P P G G P G H A E A G] H L G	773	Disordered Region 3
aaggtttgtgacttccacctgaaccaccagcagcccagccccaccagcgtcctgcctaca	2399	
K V C D F H L N H Q Q P S P T S V L P T	793	
gaggtggcagcccctccgcttgagaaaattttgtctgtggatagcgtggcagtgactgt	2459	
E V A A P P L E K I L S V D S V A V D C	813	
gcctacaggactgtgcccagccagggcctcagcctggcccacatggatcactattgact	2519	
A Y R T V P K P G P Q P G P H G S L L T	833	
gaaggggtgtctcagaagcctttcgggggacttgaaccggttcccctgtgggatggaggtg	2579	
E G C L R S L S G D L N R F P C G M E V	853	
cactctggccagagagaactggagagcgtggttgctgtcggcgaagccatggcttttgaa	2639	
H S G Q R E L E S V V A V G E A M A F E	873	
atltccaatgggagccatgagttactgtctcagggacagaagcagatlttttattcagact	2699	
I S N G S H E L L S Q G Q K Q I F I Q T	893	
tccgatgggcttatcttgtcccctccaggtacaatagtgtctcaggaggaggacattgtc	2759	
S D G L I L S P P G T I V S Q E E D I V	913	
acagtgactgatgcagagggcgctgcctgcggtgggcccgctagaggagttcctctag	2819	A>G SFRS9
T V T D A E G] R A C G W A R *	933	DUF 123-920
aagctgtggagtcggctcgtcacctggagccagagccctcacagtgaagtggagtcagat	2879	
cctagattcgtctgattttatccagagaaggtctatggcaagcaatgtatatlttttctaa	2939	A>G KHDRBS#1
tgtgaatattgcacagatgaaccttttattataaagaataatgtctttctgc	2999	Polyadenylation Signal polyA_site