

Human	Wild-type	1	MASLFKKK	TVDDVIKEQNRELRGTQRAI	IRDRAALEKQEKQLELEIKKMAKIGNKEACKVLAKQLVHLRQKTRTFVAVSSKVTSMSTQTKVMNSQMKMAGAMSTTAKT		
Human	Intron5	1	MASLFKKK	TVDDVIKEQNRELRGTQRAI	IRDRAALEKQEKQLELEIKKMAKIGNKEACKVLAKQLVHLRQKTRTFVAVSSKVTSMSTQTKVMNSQMKMAGAMSTTAKT		
Human	$\Delta 10$	1	MASLFKKK	TVDDVIKEQNRELRGTQRAI	IRDRAALEKQEKQLELEIKKMAKIGNKEACKVLAKQLVHLRQKTRTFVAVSSKVTSMSTQTKVMNSQMKMAGAMSTTAKT		
Human	D148Y	1	MASLFKKK	TVDDVIKEQNRELRGTQRAI	IRDRAALEKQEKQLELEIKKMAKIGNKEACKVLAKQLVHLRQKTRTFVAVSSKVTSMSTQTKVMNSQMKMAGAMSTTAKT		
Mouse		1	MASLFKKK	TVDDVIKEQNRELRGTQRAI	IRDRAALEKQEKQLELEIKKMAKIGNKEACKVLAKQLVHLRQKTRTFVAVSSKVTSMSTQTKVMNSQMKMAGAMSTTAKT		
Rat		1	MASLFKKK	TVDDVIKEQNRELRGTQRAI	IRDRAALEKQEKQLELEIKKMAKIGNKEACKVLAKQLVHLRQKTRTFVAVSSKVTSMSTQTKVMNSQMKMAGAMSTTAKT		
Chicken		1	MASLFKKK	TVDDVIKEQNRELRGTQRAI	IRDRAALEKQEKQLELEIKKMAKIGNKEACKVLAKQLVHLRQKTRTFVAVSSKVTSMSTQTKVMNSQMKMAGAMSTTAKT		
Pufferfish		1	--VCVCLL	LYQDIKEQSRRE	FSFQRCIIRDRFALEKQEKQLELEIKKMAKIGNKEACKVLAKQLVHLRQKTRTFVAVSSKVTSMSTQTKVMNSQMKMAGAMSTTAKT		
Zebrafish		1	MASLFKKK	TVDDVIKEQNRELRGTQRAI	IRDRAALEKQEKQLELEIKKMAKIGNKEACKVLAKQLVHLRQKTRTFVAVSSKVTSMSTQTKVMNSQMKMAGAMSTTAKT		
Drosophila		1	MFNNIFGKRP	IVREQQE	ENRSLRKKATDIEIRRRK	EEERLELEIRNNAAGNNDAC	ELAKQLVHLRQKTRTFVAVSSKVTSMSTQTKVMNSQMKMAGAMSTTAKT
Human	Wild-type	109	MQAVNKKMDPQKTLQTMQNFQKENMKMTEEMINDTLDDIFDGS	DEEESQDIVNQVLDEIGIEISGKMAKAPSAARSLPSAS	--TSKA--TISDEEIERQLKALGVD		
Human	Intron5	109	MQAVNKKMDPQKTLQTMQNFQKENMKMTEEMINDTLDDIFDGS	DEEESQDIVNQVLDEIGIEISGKMAKAPSAARSLPSAS	--TSKA--TISDEEIERQLKALGVD		
Human	$\Delta 10$	109	MQAVNKKMDPQKTLQTMQNFQKENMKMTEEMINDTLDDIFDGS	DEEESQDIVNQVLDEIGIEISGKMAKAPSAARSLPSAS	--TSKA--TISDEEIERQLKALGVD		
Human	D148Y	109	MQAVNKKMDPQKTLQTMQNFQKENMKMTEEMINDTLDDIFDGS	DEEESQDIVNQVLDEIGIEISGKMAKAPSAARSLPSAS	--TSKA--TISDEEIERQLKALGVD		
Mouse		109	MQAVNKKMDPQKTLQTMQNFQKENMKMTEEMINDTLDDIFDGS	DEEESQDIVNQVLDEIGIEISGKMAKAPSAARSLPSAS	--TSKA--TISDEEIERQLKALGVD		
Rat		109	MQAVNKKMDPQKTLQTMQNFQKENMKMTEEMINDTLDDIFDGS	DEEESQDIVNQVLDEIGIEISGKMAKAPSAARSLPSAS	--TSKA--TISDEEIERQLKALGVD		
Chicken		109	MQAVNKKMDPQKTLQTMQNFQKENMKMTEEMINDTLDDIFDGS	DEEESQDIVNQVLDEIGIEISGKMAKAPSAARSLPSAS	--TSKA--TISDEEIERQLKALGVD		
Pufferfish		107	MQAVNKKMDPQKTLQTMQNFQKENMKMTEEMINDTLDDIFDGS	DEEESQDIVNQVLDEIGIEISGKMAKAPSAARSLPSAS	--TSKA--TISDEEIERQLKALGVD		
Zebrafish		109	MQAVNKKMDPQKTLQTMQNFQKENMKMTEEMINDTLDDIFDGS	DEEESQDIVNQVLDEIGIEISGKMAKAPSAARSLPSAS	--TSKA--TISDEEIERQLKALGVD		
Drosophila		111	MGSENNKVR	EEAIGETIRDFQAA	NMKMTEEMINDTLDDIFDGSDEEESQDIVNQVLDEIGIEISGKMAKAPSAARSLPSAS		

Supplementary Figure 4. Multiple protein alignment of human CHMP2b, mutant isoforms and orthologs. Amino acids; conserved (black), similar (grey) and mutant sequences (yellow).