

71066532	A	M	G	G	A	G	G	G	A	C	G	G	A	A	A	A	G	A	G	A	A	A	C	C	A	A	A	A	A	G	G	G	C	G	A	A	G	G
71099252	A	A	G	G	A	G	G	G	R	A	C	R	R	R	R	M	G	A	R	A	A	A	C	A	A	R	R	0	G	G	C	R	A	G	G	A	G	
71247874	A	A	G	G	A	G	G	G	G	A	C	G	G	A	A	A	G	G	G	A	A	A	A	C	A	A	A	G	G	G	C	A	A	G	G	A	G	
71277055	A	A	G	G	A	G	G	G	G	A	C	G	G	A	A	A	G	G	R	A	A	A	A	C	C	A	A	A	R	G	G	M	R	A	R	G	A	
71353469	A	A	G	G	A	G	G	R	A	M	G	R	A	R	R	M	G	A	R	R	A	R	C	0	A	A	A	A	G	G	C	G	A	R	G	A	G	
71403978	A	0	G	G	A	G	G	R	G	A	C	G	R	A	R	0	M	G	G	0	A	A	A	C	0	A	A	R	0	G	G	C	R	A	R	0	A	
71457582	A	A	G	G	A	G	G	G	G	A	C	G	G	A	A	A	G	A	R	G	A	A	C	A	A	A	G	G	G	C	A	A	G	G	A	G		
71521560	A	A	G	G	A	G	G	G	G	A	C	G	G	A	A	A	G	A	G	A	A	A	A	C	C	A	A	A	A	G	G	C	G	A	R	G	A	
71595268	A	A	G	G	A	G	R	G	A	M	G	R	R	R	R	M	G	G	R	A	A	R	C	M	A	A	A	R	G	G	M	G	A	R	G	A	G	
71633461	A	C	G	G	A	G	G	G	G	A	C	G	G	A	A	A	G	A	G	A	A	A	A	C	A	A	A	G	G	C	A	A	G	G	A	G	A	
71759617	A	A	G	R	A	G	G	R	A	C	0	R	R	R	R	M	G	A	0	A	A	A	C	M	A	A	R	0	G	G	C	0	A	R	G	A	G	
71786668	A	A	G	G	A	G	G	G	G	A	C	G	G	A	A	A	G	A	G	A	A	A	A	C	M	A	A	R	0	G	G	C	R	A	R	G	A	
72041690	A	A	G	G	A	G	G	G	G	A	C	G	G	A	A	A	G	A	G	A	A	A	A	C	A	A	A	G	G	C	A	A	G	G	A	G		
72164217	A	A	G	G	A	G	G	G	A	C	G	G	A	A	A	A	G	A	G	A	A	A	A	C	A	A	A	G	G	C	A	A	G	G	A	G		
72389003	A	A	G	G	A	G	G	G	A	C	G	G	A	A	A	A	G	A	G	A	A	A	A	C	A	A	A	G	G	C	A	A	G	G	A	G		
72487363	A	A	G	G	A	G	G	G	A	C	G	G	A	A	A	A	G	A	G	A	A	A	A	C	A	A	A	G	G	C	A	A	G	G	A	G		
72766402	A	A	G	G	A	G	G	G	A	C	G	G	A	A	A	A	G	A	G	A	A	A	A	C	A	A	A	G	G	C	A	A	G	G	A	G		
72805462	A	A	G	G	A	G	G	G	A	C	G	G	A	A	A	A	G	A	G	A	A	A	A	C	M	A	R	A	A	G	G	C	G	A	R	G	A	
72965036	A	A	G	G	A	G	R	G	A	C	G	G	A	R	R	M	R	G	R	A	A	A	R	C	A	A	A	G	G	C	A	A	G	R	A	G	A	
73054644	A	A	G	G	A	G	G	G	A	C	G	G	A	A	A	A	G	A	R	A	A	A	C	A	A	A	A	G	G	C	A	A	G	G	A	G		
73297940	A	A	G	G	A	G	G	G	A	C	G	G	A	A	A	A	G	A	G	A	A	A	A	C	A	A	A	G	G	C	A	A	G	G	A	G		
73524573	A	A	G	G	A	G	G	G	A	C	G	G	A	A	A	A	G	A	G	A	A	A	A	C	A	A	A	G	G	C	A	A	G	G	A	G		
73585707	A	A	G	G	A	G	G	G	A	C	G	G	A	A	A	A	G	A	R	A	A	A	M	A	A	A	A	G	G	C	A	A	G	G	A	G		
73737447	A	A	G	G	A	G	G	G	A	C	G	G	A	A	A	A	G	A	R	A	A	A	C	A	A	A	R	G	G	C	A	A	G	G	A	G		
73929199	A	A	G	G	A	G	G	G	A	C	G	G	A	A	A	A	G	A	G	A	A	A	C	C	A	A	A	A	G	G	C	A	A	G	G	A	G	
74188118	A	A	G	G	A	G	R	G	A	M	G	R	R	R	R	M	G	G	R	A	A	R	C	A	A	A	R	0	G	G	C	A	R	R	R	R	A	
74256133	A	A	G	G	A	G	G	G	A	C	G	G	A	A	A	A	G	A	G	A	A	A	C	A	A	G	G	G	C	A	A	G	G	A	G	A	G	
74507499	A	A	G	G	A	G	G	G	A	C	G	G	A	A	A	A	G	A	G	A	A	A	C	A	A	A	A	G	G	C	A	A	G	G	A	G	A	
74531671	A	A	G	G	A	G	G	G	A	C	G	G	A	A	A	A	G	A	G	A	A	A	C	M	A	R	A	A	G	G	C	G	A	A	G	R	A	
74640629	A	A	G	G	A	G	G	G	A	C	G	G	A	A	A	A	G	A	G	A	A	A	C	A	R	A	A	G	G	C	G	A	A	G	R	A	G	
74706742	A	A	G	G	A	G	R	G	A	C	G	G	A	R	R	M	R	G	R	A	A	R	C	A	A	A	R	G	G	C	A	A	G	R	R	A	G	
74766200	A	A	G	G	A	G	G	G	A	C	G	G	A	A	A	A	G	A	G	A	A	A	C	A	A	A	A	G	G	C	A	A	G	R	A	G	A	
74811718	A	A	G	G	A	G	G	G	A	C	G	G	A	A	A	A	G	A	G	A	A	A	C	A	A	A	A	G	G	C	A	A	G	R	A	G	A	
74874742	A	A	G	G	A	G	R	G	A	M	G	R	R	R	R	M	G	G	R	A	A	R	C	A	A	A	R	G	G	C	A	A	G	R	R	A	G	
74924082	A	A	G	G	A	G	G	G	A	C	G	G	A	A	A	A	G	A	G	A	A	A	C	C	A	A	A	A	G	G	C	G	A	A	G	R	A	
74958043	A	A	G	G	A	G	G	G	A	C	G	G	A	A	A	A	G	A	G	A	A	A	C	M	A	R	A	A	G	G	C	A	A	G	R	A	G	

Controls

DSH

Cases

A	C	G	G	A	G	G	A	G	A	C	G	A	A	G	G	C	G	G	A	A	A	C	A	A	A	G	G	G	C	A	A	G	G		
A	C	G	O	A	G	G	O	R	A	C	O	A	R	G	G	C	G	R	O	A	A	A	C	A	A	A	G	G	G	C	O	A	G	O	
A	O	G	G	A	G	G	R	R	A	C	R	A	R	G	G	C	G	G	A	A	A	A	C	A	A	A	G	G	G	C	A	A	G	G	
A	O	G	G	A	G	G	R	R	A	C	R	A	R	G	G	C	G	G	A	A	A	A	C	A	A	A	G	G	G	C	A	A	G	G	
A	M	G	G	A	G	G	R	G	A	C	G	R	A	R	R	M	G	R	A	A	A	A	C	A	A	A	G	G	G	C	A	A	G	G	
A	A	G	G	A	G	G	G	G	A	C	G	G	A	A	A	A	G	R	R	A	A	A	C	M	A	A	R	O	G	G	C	R	A	G	G
A	M	G	G	A	G	G	R	R	A	C	R	A	R	G	G	C	G	G	A	A	A	A	C	A	A	A	G	G	G	C	A	A	G	G	
A	C	G	G	A	G	G	A	G	A	C	G	A	A	G	G	C	G	G	A	A	A	A	C	A	A	A	G	G	G	C	A	A	R	G	
A	O	G	G	A	G	G	R	R	A	C	R	A	R	G	G	C	G	R	A	A	A	A	C	A	A	A	G	G	G	C	A	A	G	R	
A	C	G	G	A	G	G	A	G	A	C	G	A	A	G	G	C	G	G	A	A	A	A	C	A	A	A	G	G	G	C	A	A	G	G	
A	C	G	G	A	G	G	A	G	A	C	G	A	A	G	G	C	G	G	A	A	A	A	C	A	A	A	G	G	G	C	A	A	G	G	
A	M	G	G	A	G	G	R	R	A	C	R	A	R	G	G	C	G	R	A	A	A	A	C	A	A	A	G	G	G	C	A	A	G	R	
A	M	G	G	A	G	G	R	G	A	M	G	R	R	R	R	M	G	R	R	A	A	A	C	A	A	A	G	G	G	C	A	A	G	G	
A	M	G	G	A	G	G	R	G	A	C	G	R	A	R	R	M	G	R	R	A	A	A	C	A	A	A	G	G	G	C	A	A	G	G	
A	C	G	G	A	G	G	A	G	A	C	G	A	A	G	G	C	G	G	A	A	A	A	C	A	A	A	R	R	G	G	C	R	A	R	G
A	A	G	G	A	G	G	R	R	A	C	R	R	R	G	G	C	R	R	A	A	A	A	C	A	A	R	R	R	G	G	C	R	A	G	G
A	M	G	G	A	G	G	R	R	A	C	R	A	R	G	G	C	G	R	A	A	A	A	C	A	A	A	G	G	G	C	A	A	G	R	
A	A	G	G	A	G	G	G	A	A	C	A	A	G	G	G	C	G	A	A	A	A	A	C	A	A	A	G	G	G	C	A	A	G	R	
A	M	G	G	A	G	G	R	R	A	C	R	A	R	G	G	C	G	R	A	A	A	A	C	A	A	A	G	G	G	C	A	A	G	G	
A	C	G	G	A	G	G	R	G	A	C	G	R	A	R	R	M	G	R	R	A	A	A	C	A	A	A	G	G	G	C	A	A	A	R	
A	M	G	G	A	G	G	R	R	A	C	R	A	R	G	G	C	G	R	A	A	A	A	C	A	A	A	G	G	G	C	A	A	G	R	
A	M	G	G	A	G	G	R	G	A	C	G	R	A	R	R	M	G	R	R	A	A	A	C	A	A	A	G	G	G	C	A	A	R	G	
A	A	G	G	A	G	G	R	R	A	C	R	R	R	G	G	C	R	R	A	A	A	A	C	A	A	R	R	R	G	G	C	R	A	G	G
A	M	G	G	A	G	G	R	R	A	C	R	A	R	G	G	C	G	R	A	A	A	A	C	A	A	A	G	G	G	C	A	A	G	R	
A	M	G	G	A	G	G	R	R	A	C	R	A	R	G	G	C	G	R	A	A	A	A	C	A	A	A	G	G	G	C	A	A	G	R	
A	A	G	G	A	G	G	A	G	A	C	G	G	A	G	G	C	A	G	A	A	A	A	C	A	A	R	R	R	G	G	C	R	A	G	G

Haplotype

↑  
KCNH4

↑  
WNK4