

Pax-3 vs. Pax-7 [Mus musculus]

Range 1: homeodomain of Pax7 - 177 to 274

Score	Expect	Method	Identities	Positives	Gaps
177 bits(450)	4e-59	Compositional matrix adjust.	85/100(85%)	93/100(93%)	2/100(2%)
Pax3 21	EREKKAKHSIDGILSERASAPQSDEGSDIDSEPDLPKRRQ	RRSRRTT	TAEQLEELERAF	80	
	+ EKKAKHSIDGIL ++ + + DEGSD++SEPDLPKRRQ	RRSRRTT	TAEQLEELE+AF		
Pax7 177	DGEKKAKHSIDGILGDKGN--RLDEGSDVESEPDLPKRRQ	RRSRRTT	TAEQLEELEKAF	234	
Pax3 81	ERTHYPDIYTR	EELAQR	AKLTEARVQVWFSNRRARWRKQA	120	
	ERTHYPDIYTR	EELAQR	KLTEARVQVWFSNRRARWRKQA		
Pax7 235	ERTHYPDIYTR	EELAQR	TKLTEARVQVWFSNRRARWRKQA	274	

Figure S1. Comparison of Pax3 and Pax7 homeodomains. Alignment of the homeodomains shows the high level of conservation of this domain, with perfect identity of all DNA-interacting residues. Yellow indicates amino acids that make specific base contacts. Green indicates amino acids that make other DNA contacts. Middle row indicates sequence identities/similarities. Source: ncbi.nlm.nih.gov/Structure/