

Human		1	MGEPAGVAGT	10
Mouse			-----	
Human	11	MESPFSPGLFHRLEDEDWDSALFAELGYFTDDELQLEAANETYENNFNLDLDFDLDPWE	70	
		MESPFSP L H DEDW+S LFAELGYFTD++ +AA+E YENNF+L+FDL+PWE		
Mouse	1	MESPFSPVLPHPDEDEDWESTLFAELGYFTD+D+VHFDAAHEAYENNFHDLNFDLDPWE	60	
Human	71	SDIWDINNQICTVKDIKAEPQPLSPASSYSVSSPRSVDSYSSTQHVPEELDLSSSSQMS	130	
		SD+W + C+ D+KAEPQPLSPASS S+SSPRS DS SSTQHVPEELDL SSSQ		
Mouse	61	SDLWSPGSHFCS--DMKAEPQPLSPASSSCSISSPRSTDSCSSTQHVPEELDLSSSSQSP	118	
Human	131	PLSLYGENSNLSLSSPEPLKEDKPVTSRNTENGLTPKKKIQVNSKPSIQPKPLLLPAAP	190	
		LSLYG++ NS SS EPLKE+KP+TG NKTE+GLTPKKKIQ++SKPS+QPKPLLLPAAP		
Mouse	119	-LSLYGDCNSPSSVEPLKEEKPIITGPGNKTEHGLTPKKKIQMSSKPSVQPKPLLLPAAP	177	
Human	191	KTQTNSSVPAKTI I I QTVPTLMPLAKQQPI I ISLQPAPTKGQTVLLSQPTVVQLQAPGVLP	250	
		KTQTN+SVPK I I I Q+P LMPLAKQQ I IS+QPAPTKGQTVLLSQPTVVQLQ+P VLP		
Mouse	178	KTQTNASVPAKAI I I QTLPALMPLAKQSI I SIQPAPTKGQTVLLSQPTVVQLQSPAVLP	237	
Human	251	SAQPVLAVAGGVTLQPNHVNVVPAPSANSFPVNGKLSVTKPVLQSTMRNVGSDIAVLRRO	310	
		SAQPVLAV GG QLPNHVVNV+PAP +SPVNGKLSVTKPVLQS R++GSDIAVLRRO		
Mouse	238	SAQPVLAVTGGAQLPNHVNVLPAPVSSPVNGKLSVTKPVLQSATRSMGSDIAVLRRO	297	
Human	311	QRMIKNRESACQSRKKKKEYMLGLEARLKAALSENEQLKKENGLKQRLDEVVSENQRLK	370	
		QRMIKNRESACQSRKKKKEYMLGLEARLKAALSENEQLKKENG+LKRQRLDEVVSENQRLK		
Mouse	298	QRMIKNRESACQSRKKKKEYMLGLEARLKAALSENEQLKKENGLKQRLDEVVSENQRLK	357	
Human	371	VSPKRRVVCVMIVLAFI I LNYGPMMLQDSRRMNPSVGPANQRRHLLGFSAKEAQTDS	430	
		VSPKRR VCVMIIVLAFI+LNYGPMMLQ+SRR+ PSV PANQRRHLL FSAKE +DTS		
Mouse	358	VSPKRRVVCVMIVLAFI I LNYGPMMLQESRRVVKPSVSPANQRRHLLGFSAKEVKTDS	417	
Human	431	DGIIQKNSYRYDHSVSNKALMVLTEEPALLYIPPPCQPLINTTESLRLNHELGRGWVHRH	490	
		DG QK+SY YDHSVSNKALMVL+EEPLY+PPPCQPLINTTESLRLNHELGRGWVHRH		
Mouse	418	DGDNQKDSYSDHSVSNKALMVLSEEPALLYMPPPCQPLINTTESLRLNHELGRGWVHRH	477	
Human	491	EVERTKSRRTNNQKTRILQGVVEQGSNSQLMAVQYTETTSISRNSGSELQVYYASPR	550	
		EVERTKSRRTN+QK RILQG +EQGSNSQLMAVQYTETT ISRNSGSELQVYYASP		
Mouse	478	EVERTKSRRTNSQKARILQGALEQGSNSQLMAVQYTETT-SISRNSGSELQVYYASPG	536	
Human	551	SYQDFFEAIRRRGDTFYVVSFRRDHLLLPATTHNKTRPKMSIVLPAININENVINGQDY	610	
		SYQ FF+AIRRRGDTFYVVSFRRDHLLLPATTHNKTRPKMSIVLPAININ+NVINGQDY		
Mouse	537	SYQGFFDAIRRRGDTFYVVSFRRDHLLLPATTHNKTRPKMSIVLPAININDNVINGQDY	596	
Human	611	EVMQIDCQVMDTRILHIKSSSVPPYLDRDQRNQTNTFFGSPPAATEATHVVSTIPESLQ	670	
		EVMQIDCQVMDTRILHIKSSSVPPYLDR QRNQT+TFFGSPP TE THVVSTIPESLQ		
Mouse	597	EVMQIDCQVMDTRILHIKSSSVPPYLDRDQRNQTSTFFGSPPTTTETHVVSTIPESLQ	656	

Supplemental Figure 1. Alignment of human ATF6 and mouse ATF6 proteins by BLAST. Identical amino acid residues between the two sequences are shown between them. Asterisks indicate the amino acid residues at the domain boundaries. Ile171 and Ser373 in human ATF6 correspond to Ile158 and Ser360 in mouse ATF6, respectively.