

Trypsinogen – Chymotrypsinogen Numbering Systems*

Exon 1 *signal peptide*

CODON	1	10	14
CT	MNPLLLILTFVAAAL		
AT	MNLLLLILTFVAAAV		
MT	MNPFLILAFVGA AV		
TRY6	MNPLLLILAFVGA AV		
Chy	MAFLWLLSCWALLGTTF		

Exon 2 *TAP*

CODON	15	16	23	29	40	50	60	67
CT	A	<u>APFDDDDK</u>	IVGGY <u>NCEENS</u> VPYQVSLN		SGYHFCGGSLINEQWVVSAGHCYKS			
AT	A	<u>APFDDDDK</u>	IVGGY <u>ICEENS</u> VPYQVSLN		SGYHFCGGSLISEQWVVSAGHCYKS			
MT	A	<u>VPFDDDDK</u>	IVGGYT <u>CEENS</u> LPYQVSLN		SGSHFCGGSLISEQWVVSAAHCYKT			
TRY6	A	<u>VPFDDDDK</u>	IVGGYT <u>CEENS</u> VPYQVSLN		SGSHFCGGSLISEQWVVSAGHCYKP			
Chy	G	<u>CGVPAIHVPLSGLSR</u>	IVNGEDAVPGSWPQVSLQDKTGFHFCGGSLISEDWVVTAAHCGVR					
Chy#	1	10	2021	30	40	50	57	

Exon 3

CODON	68	70	80	90	100	110	120	122	130	140	150	152
CT	RIQ	URLGEHNIEVLEGN	EQFINAAKIIIRHPQYDRKTLNNDIMLIKLS	SSRAVINARVSTISLPT	APPA	TG	TKCLISG	WGNTASSGA				
AT	RIQ	URLGEHNIEVLEGN	EQFINAAKIIIRHPKYNSRDLNDILLIKLS	SPPAVINSRVSAISLPT	APPA	AG	TESLISG	WGNTLSSGA				
MT	RIQ	URLGEHNIKVLEGN	EQFINAAKIIIRHPKYNRDITLNDIMLIKLS	SPPAVINARVSTISLPT	APPA	AG	TECLISG	WGNTLSFGA				
TRY6	HIQ	URLGEHNIEVLEGN	EQFINAAKIIIRHPKYNRITLNDIMLIKLS	TPAVINAHVSTISLPT	APPA	AG	TECLISG	WGNTLSSGA				
Chy	TSDV	VVAGEF	DQGSDEENIQVLKIAKVFKNPKFSILTVNNDITLLKLATPARFSQ	TVSAVCLPSADDDFPAGTLCATTGWGKTKYNAN								
Chy#	62	70	80	90	100102	110	117	120	130	140		

Exon 4

CODON	153	160	170	180	190	197
CT	DYPDELQCLDAPVLSQAKCEASYPGKITSNMFCVGFLEGGKDSCQ					
AT	DYPDELQCLDAPVLSQAECEASYPGKITNNMFCVGFLEGGKDSCQ					
MT	DYPDELKCLDAPVLTQAECKASYPGKITNSMFCVGFLEGGKDSCQ					
TRY6	DYPDELQCLDAPVLTQAKCKASYPLKITSKMFCVGFLEGGKDSCQ					
Chy	KTPDKLQQAALPLLSNAECKKSWGRRITDVMICAG	ASGV	SSCM			
Chy#	150	160	170	180	190	

Exon 5

CODON	198	210	220	230	240	247
CT	GDSGGPVVCNGQ	LQGVVSWG	GCAQKNKPGVYTKVYNYVKWIKNTIAANS			
AT	GDSGGPVVSNGE	LQGI	VSNGY GCAQKNRPGVYTKVYNYVDWIKDTIAANS			
MT	RDSGGPVVCNGQ	LQGVVSWG	H GCAWKNRPGVYTKVYNYVDWIKDTIAANS			
TRY6	GDSGGPVVCNGQ	LQGI	VSNGY GCAQKRRPGVYTKVYNYVDWIKDTIAANS			
Chy	GDSGGPLVCQKDGAWTLVGIVSWGSDTCS	TSSPGVYARVTKLIPVWQKILAAN				
Chy#	195	200	210	s 220	s 230	240

*Whitcomb D. C. Genetic Predispositions to Acute and Chronic Pancreatitis. Med. Clin. North Am. 2000;84:531-547.