

		<u>α1</u>		<u>β1</u>	<u>α2</u>		
mMunc18c	MAPPVSE-----RGLKSVVWRKIKTAVFDDCRKEGE-----WKIMLLDEFTTKLLSSC					48	
rMunc18a	MAP-----IGLKAVVGEKIMHDVIKKVKKKGE-----WKVLVVDQLSMRMLSSC					44	
sSec1	M-----ALKTAVHEKIMNDVVLAVKKNAE-----WKVLIVDQLSMRMVSAC					41	
Sly1p	MAVEEIASR-KDISLRDMQISAILKMLFLNKLNNNDNITTITDDIFNQEIWKVLILDIKSTATISSV					69	
		<u>α3</u>	<u>β2</u>	<u>β3</u>	<u>α4</u>	<u>β4</u>	
mMunc18c	CKMTDLLEEGITVIENIYKNREPVRQMKALYFISPTPKSVDCFLRDFGSKSEKKYKAAIYFTDFCPDS					117	
rMunc18a	CKMTDIMTEGITIVEDINKRREPLPSLEAVYLITPSEKSVHSLISDFKDPPTAKYRAAHVFFTDSCPDA					113	
sSec1	CKMHEIMSEGITLVEDINRRREPLPLLEAVYLITPTEESVKCLMADFQNPDPNPQYRGAIHFFTEACPEE					110	
Sly1p	LRVNDLLKAGITVHSLIKQDRSPLPDVPAIYFVSPTEKENIDIIVNDLKS---DKYSEFYINFTSSLPRN					135	
		<u>α5</u>	<u>β5</u>	<u>β6</u>	<u>β7</u>	<u>α6</u>	<u>α7</u>
mMunc18c	LFNKIKASC-----SKSIRRCKEINISFIPQESQVYTLDVDPDAFYCYSPDPSNASRKEVVMEMAEQI						181
rMunc18a	LFNELVKS---RAAKVIKTLTEINIAFLPYESQVYSLDSADSFQSFYSP--HKAQMKNPILERLAEQI						176
sSec1	LFKELCKS---TTARFIKTLKEINIAFLPYESQIFSLDSPDTFQVYYP--SRAQGGIPNKERCAEQI						173
Sly1p	LLEDLAQQVSIQKSDKIKQVYDQYLDIVTEPELFSLEISNAYLTLNDPK-TTEEBITGLCANIADGL						203
		<u>β8</u>	<u>α8</u>	*	<u>β9</u>		
mMunc18c	VTVCATLDENPGVRYK--SKPLDNASKLAQLVEKKLEDDYKIDEKGLIK--KTQSQLLIIDRGFDPVS					246	
rMunc18a	ATLCATLKEYPAVRYR--GEYKDNAL-LAQLIQDKLDAY-KADDPTMGEGPDKARSQLLILDRGFDPSS					241	
sSec1	ATLCATLGEYPSVRYR--SDFDENAS-FAQLVQOKLDAY-RADDPTMGEGPQKDRSQLLILDRGFDPIS					238	
Sly1p	FNTVLTINSIPIIRAAGGPAEIIAEKLGTKLRDFVINTNSSSTSTLQGNDSLRLGVLIILDRNIDFAS					272	
		<u>α9</u>	<u>β10</u>	<u>β11</u>	<u>α10</u>	<u>α11</u>	
mMunc18c	TVLHELTFQAMAYDLL-----PIENDTYKYKTDG----KEKEAVLEEDDDLVVRVRRHIAVVLE					302	
rMunc18a	PVLHELTFQAMAYDLL-----PIENDVYKYETSGIGEARVKEVLLDEDDDLWIALRKHIAEVSQ					301	
sSec1	PLLHELTFQAMAYDLL-----PIENDVYKYVNTGGNEVPEKEVLLDEKDDLWEMRHHQHIAVVSQ					298	
Sly1p	MFSHSWIYQCMVFDIFKLSRNTVTIPLSKENGTDNTTAKPLATKKYDIEPNDFWMENSHLPFFPEAAE					356	
					<u>α12</u>		
mMunc18c	EIPKLMKEISSTKKATEG--KTSLSALTQLMK-----KMPHFRKQISKQVVHLNLAEDCMNKFKLNI					362	
rMunc18a	EVTRSLKDFSSSKRMNTG-EKTTMRDLSQMLK-----KMPQYQKELSKYSTHLHLAEDCMKHYYGTV					362	
sSec1	NVTKCLKQFADEKRMGTAADKAGIKDLSQMLK-----KMPQYQKELSKYSTHLHLAEDCMKQYQQHV					360	
Sly1p	NVEAALNTYKEEAETR--KTGVNTISDLDPNSSNNDTVQIQEVVKKLPELTAKKNTIDTHMNIFAALL					408	
		<u>α13</u>	<u>α14</u>	<u>α15</u>	<u>α16</u>		
mMunc18c	EKLCKTEQDLALGTDABGQRVKDSMLVLLPVLLNKNHNDCKIR-AVLLYIFGINGTTEENLDRLIHNV					430	
rMunc18a	DKLCRVEQDLAMGTDABGEKIKDPMRAIVPILLDANVSTYDKIR-IILLYIFLKNGITTEENLNKLIQHA					430	
sSec1	DKLCKVEQDLAMGTDADGEKIRDHMRNIVPILLDQKISAYDKIR-IILLYIIHKGGISEENLAKLVQHA					428	
Sly1p	SQLESKSLDTFFEVEQDPGSKTKRSRFLDILKDGKTNLEDKLRSFIVLYLTSTTGLPKDFVQNVENYF					477	
		<u>α17</u>					
mMunc18c	KIE-DDSDMIRNWSHLGVPVPPS---QOAKP----LRKDRSAEETFQ-----LSRW					474	
rMunc18a	QIPPEDSEIITNMAHLGVPVIVTDSTLRRRSKP---ERKERISEQTYQ-----LSRW					478	
sSec1	HIPAEKWIINDMQNLGVPPIIQDGGRRKIPQPYHHTNRKERQADHTYQ-----MSRW					480	
Sly1p	KENDYDINALKYVYKLRREFMQLSNMSLQNKSLSDGSDSAFKPSNLTLSGIYGLTEGKLQGGVGSLSIGI					546	
		<u>α18</u>			<u>β12</u>		
mMunc18c	TPFIKDIMEDAIDNRLDSKEWPYCSRPCPAVWNGSGAVSARQ-KPRTNYL-ELDRKNGSRLIIFVIGGIT					541	
rMunc18a	TPIIKDIMEDTIEDKLDTKHYPIISTRSSASFSTTAVSARYGHWHKKA-PGEYRSGPRLIIFILGGVS					546	
sSec1	TPYMKDIMEAAVEDKLDTRHYPLFNGGGPRPSCQPPVSVRYGHWHKDKG-QASYKSGPRLIIFVVGGIS					548	
Sly1p	KKLLPEKKTIPITNVVDAIMDPLNSSQKNLETTDSYLYIDPKITRGSHTRKPKRQSYNKSIVFVVGGN					615	
		<u>α19</u>	<u>β13</u>	<u>α20</u>			
mMunc18c	YSEMRCAYEVSQ--AHKSCEVIIGSTHILTPRKLLDDIKMLNKSCKDKVSPKDE					592	
rMunc18a	LNEMRCAYEVTQ--ANGKWEVLIIGSTHILTPQKLLDTLKKNKTDEEISS---					594	
sSec1	YSEMRSAEYVTQT-AKNNWEVILIGSTHILTPGELLRLDRKISNP-----					591	
Sly1p	YLEYQNLQEWASQLHNPVKVYMGSTAITTPAEFLNEISRLGASNSSNDA--					666	