

dyak -altagepekvrplpqlklenavksaakdg--adeimlaleshlpssvrvngarslfrqdd
dere -altagepekvrplpqlklenavktaakdg--adeimlaleshlpssvrvngarslfrdd
dana aavtagepekvrpleklesavkavtkdg--adeimlaleshlsavsrvgarslfrqdd
dpse -avtagepekvrplpqlklesavntaaskeggadeimlaleshlgavsvrygarslfrqdd
dper -avtagepekvrplpqlklesavntaaskeggadeimlaleshlgavsvrygarslfrqdd
dwil eqvtagepekvrplpqlklenavktavkds--adeimlaleshlsavsvrygarslfrdd
dmoj nqvtasepekvrplpqlklenavksmvkeg--adeimlaleshlsavsvryggrslfrkdd
dvir nqvtagepekvrplpqlklenavksmvkeg--adeimlaleshlsvaraysarslfrqdd
dgri dqvtagepekvrplpqlkletavksmikeg--adeimlaleshlsnvaraygarslfrqdd
*:*****:***:***:.. *****:***:*** *:*.*****:***

dmel itsalsansitgrsagSKSKMLLFNGLYYRGSWANPFYQLRDGSDEFFMTNEDAVKAPM
dsim itsalsansitgrsagSKSKMLLFNGLYYRGSWANPFYQLRDGSDEFFMTNEDAMKAPM
dsec ITSALSANSITGRSARSKSKMLLFNGLYYRGSWANSFYQLRDGSDEFFMTNEDAMKAPM
dyak itsalsansitgrsagSKSKMLLFNGLYYRGSWANPFYQLRDGSDEFFMTNEDAMKAPM
dere itsalsansitgrsagSKSKMLLFNGLYYRGSWANPFYQLRDGSDEFFMTNEDAMKAPM
dana itsalsansitgrsagSKSKMLLFNGLYYRGSWANPFYQLRDGSDEFFMTNEDAMKAPM
dpse itsalsansitgrsagAKSKMLLFNGLYYRGSWATPFYQLRDGSDEFFMTNEDAMKAPM
dper itsalsansitgrsagAKSKMLLFNGLYYRGSWATPFYQLRDGSDEFFMTNEDAMKAPM
dwil iasalsansitgrsagSKSKMLLFNGLYYRGSWAQPFYQLRDGSDEFFMTNEDAMQAPM
dmoj iacalsanaaitgrandAKTKMLLFNGLYFHGSWRQPFYQLRDGSDEFFMTNEDAMKTPM
dvir iasalsansitgrellgSKSKMLLFNGLYYRGSWAQPFYQLRDGSDEFFMTNEDAVKTPM
dgri iasalsansitgravdSKSKMLLFNGLYYRGSWAQPFHQLRDGSDEFFMTSEDAMKTPM
*:*****:***:*****:*** *:*****:***:*****:***:***

dmel MHARGKFQVADLPQVKARVLSLPYETSRYALCIVLPDETEGLSDVISQLQTSDFLLAKKQ
dsim MHARGKFQVADLPQVKARVLSLPYETSRYALCIVLPDETEGLSDVISQLQTSDFLLAKKQ
dsec MHARGKFQVADLPQVKARVLSLPYETSRYALCIVLPDETDGLSDVISQLQTSDFLLAKKQ
dyak MHARGKFQVADLPQVKARVLSLPYETSRYALCIVLPDETEGLSDVISQLQTSDFLLAKKQ
dere MHARGKFQVADLSQVKARVLSLPYETSRYALCIVLPDETEGLSDVISQLQTSDFLLAKKQ
dana MHARGKFQLAELPKLKAKVLSLPYETSRYSLCIVLPDETEGLSDVIDQLETSDFQQAHS
dpse MHARGQFLVADLPQLKARVLSLPYETSRYALCILLPDETEGLHDVIAQMOPSDFQLGREK
dper MHTRGQFLVADLPQLKARVLSLPYETSRYALCILLPDETEGLHDVIAQMOPSDFQLGREK
dwil MHTKGKFYVADLPQLKARVLSLPYENEKYGLSIVLPNETEGLSEVIAQMOPSDFKYARDH
dmoj MHARGKFVNSDLPHLKARLLSLPYENDQYSLCIVLPNEPEGLSEVIAQLPESDYKYAREH
dvir MHARGKYNNVTDLPHLKARLLSVPYENAQYSLCIVLPNEPEGLSEVIAQLQPSDYKYAREH
dgri MHAQKGFNVAELPHLKARLLALPYENAQYSLCIVLPNEAEGLESEVIAQLQPSDYRFANEH
:::*:***:***:***:***:***:***:***:***:***:***:***:***:***:***:***

dmel FQMKELHISMPKFQVEETSRSEAMLKQMGKKVFSRTEAQLSLLSEDPDVHVDEIVQFVN
dsim FQMKELHISLPKFQVEETSRSEAMLKQMGKKIFSRTEAQLGLLSEDPDVHVDEIVQFVN
dsec FQMKELHISLPKFQVEETSRSEAMLKQMGKKIFSRTEAQLGLLSEDPDVHVDEIVQFVN
dyak FQMKELHISLPKFQVEETSRSEAMLKQMGKKVFSRTEAQLGLLSEDPDVHVDEIVQFVN
dere FQMKELHISLPKFQVEETSRSEAMLKQMGKTKVFSRTEAQLGLLSEDPDVHVDEIVQFVN
dana FQMKELHISLPKFQVEETSRSEAMLKQMGKLLKFSRTEAQLGLLSEDPDVHVDEIVQFVN
dpse FQMKELHISLPKFQVEETSRSEAMLKQMGKLLKFSRTEAQLGLLSEDPDVHVDEIVQFVN
dper AQLRQMHSVSLPKFQVEETSRSEAMLKQMGKLLKFSRTEAQLGLLSEDPDVHVDEIVQFVN
dwil AQLRQMHSVSLPKFQVEETSRSEAMLKQMGKLLKFSRTEAQLGLLSEDPDVHVDEIVQFVN
dmoj SELKQMHSVSLPKFQVEETSRSESVLKQLGLQRLFSRTDAELSLSDDTDVHVDEIVQFVN
dvir ILLKELHVTLPKFQVMEETSRSEAMLKQMGKLLKFSRTEAQLNLMSEDEDLHIDEIVQFVS
dgri MQLKELHVTLPKFQVEETSRSEAMLQQLGLKRLFSRTEAQLGLLDEDEDVHVDEIVQFVN
LELRQLHVTLPKFQVEETSRSEMLKNLGLKRIFSRGEAQLGLLSEDEDLHIDEIVQFVN
:::***:***:***:***:***:***:***:***:***:***:***:***:***:***:***:***

dmel VRVDEGSSANSLSAATMQARTPSVESTVLPVPEPEPE - LP - GVERFEVNRPFAYFIVDC
dsim VRVDEGSSANSLSAATMQARTPSVESTVLPVPEPEPE - LP - GVERFEVNRPFAYFIVDC
dsec VRVDEGSSANSLSAATMQARTPSVESTVLPVPEPEPE - LP - GVERFEVNRPFAYFIVDC
dyak VRVDEGSSANSLSAATMQARTPSVESTVLPVPEPEPE - LP - GVERFEVNRPFAYFIVDC
dere VRVDEGSSANSLSAATMQARTPSVESTVLPVPEPEPE - LP - GVERFEVNRPFAYFIVDC
dana VRVDEGSSSTNLSAANMQARTPSVESTVLPVPEPEPE - -EP - GVERFEVNRPFAYFLVDC
dpse VRVDEGSSANALSAAATQARSPQAEDSASVLPVPEPEPEP - GVERFEVNRPFAYFIMDC
dper VRVDEGSSANALSAAATQARSPQAEDSASVLPVPEPEPEP - GVERFEVNRPFAYFIMDC
dwil VRVDEGSSANALSAAANMQARSPLASATELPVPEPEPE - -P - GVERFEVNRPFAYFIMDC
dmoj VRVDEGSSSTNLSAGNIQARSPIAAEAAAVLPVPEPEPEP - GVERFDVNRPFAYFIVDC
dvir VRVDEGSSANSLSAATMQGRSPIAAEAAATLPVPEPEPEP - GVLFVDVNRPFVYFVMD
dgri VRVDEGSSANSLSAATTQARSPLFILQE - -PEPEPEPEPEGVERFDVNRPFVYFVDC
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dmel QEQFVLASGKIYTPefkedlpssvsieveleqs
dsim QEQFVLASGKIYTPefkedlpssvsieveleqs
dsec QEQFVLASGKIYTPefkedlptvsieveleqs
dyak QEQFVLASGKIYTPefkedlpssvsieveleqs
dere QEQFVLASGKIYTPefkedlpssvsieveleqs
dpse EEQFVLASGKIYTPefkddlpssvsieveleqs
dper EEQFVLASGKIYTPefkddlpssvsieveleqs
dana EEQFVLASGKIYTPefkedlppvsieveleqs
dwil ENQLVLASGKIYTPefkddlppvsieveleqs
dmoj RTQVVLASGKIYApesvdelppvsieveleqs
dvir KNQFVLASGKIYApfekdelppvsieveleqs
dgri KNAFVLASGKIYApelkdelppvsieveleqs
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Sequence stretches with serpin homology are in UPPER CASE. The PF residues at the C-terminal “shutter region” of RCL are in **RED** as are residues showing homology to the shutter-region consensus of inhibitory serpins.