H99	MFTFAAFSALLISLAGVVAQTTGTSVDSSILTKTADSTGPSGFSIPALSELTSGAPTDST	60
	M FAA SALL+SLAG++AOT TSV SS+LT+TA TGPSGFSIPALSELTSGAPTD+T	
R265	MSAFAAVSALLVSLAGIMAQTASTSVASSVLTQTA-PTGPSGFSIPALSELTSGAPTDTT	59
H99	VALYSTFAAGATPTVSGAPVLPTSALTIADYPALDVTPPTNSSLVKDWMAKIDLSKVPSY	12
	VALYSTF A ATPTVSGAPVLPTSALTIA+YPALDV PPTNSSLV++W+AKID++KVP+Y	
R265	VALYSTFPASATPTVSGAPVLPTSALTIANYPALDVIPPTNSSLVQEWLAKIDMTKVPNY	11
H99	NVTTGDCSTDAAAISDGRCWWTCGGCTRETDIVECPDKNVWGLSYDDGPSPFTPLLIDYL	18
	N TTGDCSTD A SDGRCWWTCGGCTR TDIV CPDKNVWGLSYDDGPSPFTPLLIDYL	
R265	NATTGDCSTDPGATSDGRCWWTCGGCTRATDIVACPDKNVWGLSYDDGPSPFTPLLIDYL	17
н99	QEKNIKTTFFVVGSRVLSRPEMLQTEYMSGHQISIHTWSHPALTTLTNEEIVAELGWTMK	24
	QEKNIKTTFFVVGSRVLSRPEMLQTEYMSGH+ISIHTWSHPALTTLTNE+IVAEL WTMK	
R265	QEKNIKTTFFVVGSRVLSRPEMLQTEYMSGHEISIHTWSHPALTTLTNEQIVAELAWTMK	23
н99	VIKDTLGVTPNTFRPPYGDIDDRVRAIAAQMGLTPVIWTSYTDGSTTVNFDTNDWHISGG	30
	VIKDT+GVTPNTFRPPYGDIDDRVRAIAAQMGLTPVIWTSY+DGSTTVNFDTNDWHISGG	
R265	VIKDTIGVTPNTFRPPYGDIDDRVRAIAAQMGLTPVIWTSYSDGSTTVNFDTNDWHISGG	29
Н99	TATGASSYETFEKILTEYAPKLDTGFITLEHDIYQQSVDLAVGYILPQVLANGTYQLKSI	36
	TATGASSYETFEKIL EYAPKL+TGFITLEHD+YQQSVDLAVGYILPQVLANGTYQLKSI	
R265	TATGASSYETFEKILNEYAPKLNTGFITLEHDLYQQSVDLAVGYILPQVLANGTYQLKSI	35
н99	INCLGKDTSEAYIETSSNQTTTQITAATGSQSTFFQPIVGTATGAEVSAPSEATGSTAAG	42
	INCLGKD SEAYIETSSNQTTTQIT+A+G ST+FQPIVGTATG+EVSAPSEAT + A	
R265	INCLGKDISEAYIETSSNQTTTQITSASGSTYFQPIVGTATGSEVSAPSEAT-GSTAA	41
Н99	SAASTTSGSGASASTGAASNTSSSGSGRSATMGGALIALAAVAVGMVYVA 470	
	+A+ ++ + + + + AS++SSGSGRSATMGGALIA AAVAVG+VYVA	
R265	GSAAGSAATTSGSAASGASDSSSSGSGRSATMGGALIAFAAVAVGIVYVA 466	

400/470 identical(85%); 435/470 positive (92%)

Alignm	ment of Cda2 sequence (H99) with C. gatti (CNBG 0964) Cda2 seque	nce
н99	MIPSTAAALLTLTAGAAFAHTGCGGHEIGRRNVGGPMLYRRAVTDEASAAVSTDINTECT MIPSTAAA LTLTAG AFAH GCGG EIGRRNVGGPML+ RAVTDEASAAVSTD++TECT	60
R265	MIPSTAAAFLTLTAGTAFAHIGCGGQEIGRRNVGGPMLHSRAVTDEASAAVSTDVSTECT	60
Н99	AYSYAPVTELISSFPTIWQTASIPSNDTEAQQLFGKINSTLNTKIPNDVPHGTPTGDWTG	120
R265	AY YAPVT++ SSFP IWQTASI S D+EAQQLF IN+T+N+K+PNDVPHGTPTG+WTG AYGYAPVTQIASSFPAIWQTASILSTDSEAQQLFASINATVNSKLPNDVPHGTPTGNWTG	120
н99	VNYSNSDPDCWWTHNKCTTPSNDTGLQADISIAPEPMTWGLGFDDGPNCSHNALYDLLLE	180
	V+YS+SDPDCWWTHNKCTTPS+DTGL+ADI+ PEPMTWGLGFDDGPNCSHNALYDLLLE	
R265	VSYSSSDPDCWWTHNKCTTPSSDTGLKADITTVPEPMTWGLGFDDGPNCSHNALYDLLLE	180
Н99	NNQKATMFFIGSNVLDWPLQAMRAHDEGHEICVHTWSHQYMTALSNEVVFAELYYTQKAI NNQKATMF+IGSNV+DWPLQAMRAHDEGHEICVHTWSHQYMTALSNEVVFAELYYTQKAI	240
R265	NNQKATMFYIGSNVMDWPLQAMRAHDEGHEICVHTWSHQYMTALSNEVVFAELYYTQKAI	240
н99	KAVLGVTPQCWRPPYGDVDNRVRMIAEGLNLTTIIWSDDTDDWAAGTNGVTEQDVTNNYQ KAVLGVTP CWRPPYGDVDNRVRMIA LNL+TI+WSDDT+DW AGTNGVT+QDVTNNYQ	300
R265	KAVLGVTPLCWRPPYGDVDNRVRMIAAALNLSTIVWSDDTNDWEAGTNGVTQQDVTNNYQ	300
Н99	SVIDKAGNGTYTTHGPVVLNHELTNYTMSVFMTMFPKIKSAFNYIVPICTAYNITQPYAE SVIDKAGNGTYTTHGPVVLNHELTNYTMSVF++MFPKIKSAF+YIVPICTAYNITQPYAE	360
R265	SVIDKAGNGTYTTHGPVVLNHELTNYTMSVFVSMFPKIKSAFSYIVPICTAYNITQPYAE	360
н99	SNITCPNFETYISGVTNISSSTTQKDGSSSTNTASGSGAAGSASATSSSDDSSSSGGSSG SN+TCPNFETYISGVTNIS+STTQKDGSSSTNT+ + + S SA+S+ +SS	420
R265	SNVTCPNFETYISGVTNISTSTTQKDGSSSTNTSYTASGSTSPSASSTGKIASS	414
Н99	SSGSNNASSGALGMFDSLSGVGLILGGVVAGVMLL 455 A SGALGM+D LSG+GLILGGVVAGVMLL	
R265	AKSGALGMYDGLSGMGLILGGVVAGVMLL 443	

79/455 identical (83%); 414/455 positive (90%)

Alignment of Cda3 sequence (H99) with C. gatti (CNBG 0806) Cda3 sequence

H99	MYGHLSLSALSLFAVVAAAPFRESWLQPRDSPVSQLFRRTAPDPNSNDYMSYYPGPGSTP MYGHLSLSALSL AVVAAAPF ESWLQPRDSPVSQLFRR APDPN++DY+S+YP PGSTP	60
R265	MYGHLSLSALSLLAVVAAAPFHESWLQPRDSPVSQLFRRAAPDPNASDYLSHYPSPGSTP	60
Н99	NVSTIPQAWLDKLATVNLPNVPVATPDGGRPTYPNNEDDGDSTICSFTDQCRVEDDLYSP NVSTIPQAWLDKLATV LPNV VAT G PTYPNNE+DGDSTICSFTDQC DDL+SP	120
R265	NVSTIPQAWLDKLATVQLPNVSVATASGEIPTYPNNENDGDSTICSFTDQCVEPDDLFSP	120
Н99	PGEKIWALSFDDGPTDVSPALYDYLAQNNISSSATHFMIGGNVITSPQSVLVAVKAGGHL PGEKIWALSFDDGPTDVSP LYD+LAQNNISS ATHFMIGGNV+TSPQSVL+AV+AGGHL	180
R265	PGEKIWALSFDDGPTDVSPGLYDFLAQNNISSKATHFMIGGNVVTSPQSVLIAVQAGGHL	180
н99	AVHTWSHPYMTTLTNEQVVGELGWTMQALSDLNGGRIPMYWRPPYGDVDNRVRAIAKEVF AVHTWSHPYMTTLTNEQVVGELGWTMQALSDLNGGR+P +WRPPYGDVDNRVRAIAK VF	240
R265	AVHTWSHPYMTTLTNEQVVGELGWTMQALSDLNGGRVPKFWRPPYGDVDNRVRAIAKGVF	240
н99	GLVTVLWDSDTNDWAITDEPGQYSVASVEAYFDTLVTGNRTQGLLLLEHELDNNTVEVFE L TVLWD DTNDWAI DEP QYS+ASVEAYFDTLVTGNRTQGLLLLEHELDNNTV VFE	300
R265	DLETVLWDEDTNDWAIADEPSQYSIASVEAYFDTLVTGNRTQGLLLLEHELDNNTVTVFE	300
Н99	TEYPKAVGNGWTVKNVADAFNMEWYLNSGKGNNDVVTTMSVAGTLTTATPTNTSTYVASS TEYPKA+ NGW VKNVADAFNMEWYLNSGKGN+ VTTMSV GTL TA PTNTST VAS+	360
R265	TEYPKAIANGWIVKNVADAFNMEWYLNSGKGNDATVTTMSVGGTLPTAAPTNTSTSVASA	360
н99	TAASSASVTDSAGVSIASAASSEASSSWAIANRPSHFVIAIACGLALAAIMV 412 +A SS SVTDSAGVSIASAASSE+SSSWAIA RPS F+ IACGL AA +V	
R265	SATSSGSVTDSAGVSIASAASSESSSSWAIAERPSLFIIACGLVFAAAVV 410	

352/412 identical (85%); 372/412 positive (90%)