Rubella Therien strain RUBVgp1

protease p150 = The N-terminal cleavage product of the non-structural polyprotein; includes methyltransferase domain, hypervariable region, X domain, and non-structural protease domain."

RNA-directed RNA polymerase/triphosphatase/helicase p90 RdRp; C-terminal product of the nonstructural polyprotein; contains the NTPase/RNA helicase I and RNA-directed RNA polymerase domains"

NGSYRTSLRTPIPMEKLLDEVLAPGGPYNLTVGSWVRDHVRSIVEGAWEVRDVVTAAQKRAIVAVIPRPVFTQMQVSDHPALHAISRYTRRHWIEWGPKEALHVLIDPSPGLLREVARVERRWVALCLHRTARKLATALAETASEAWHADYVCALRGAPSGPFYVHPEDVPHGGRAVADRCLLYYTPMQMCELMRTIDATLLVAVDLWPVALAAHVGDDWDDLGIAWHLDHDGGCPADCRGAGAGPTPGYTRPCTTRIYQVLPDTAHPGRLYRCGPRLWTRDCAVAELSWEVAQHCGHQARVRAVRCTLPIRHVRSLQPSARVRLPDLVHLAEVGRWRWFSLPRPVFQRMLSYCKTLSPDAYYSERVFKFKNALCHSITLAGNVLQEGWKGTCAEEDALCAYVAFRAWQSNARLAGIMKGAKRCAADSLSVAGWLDTIWDAIKRFLGSVPLAERMEEWEQDAAVAAFDRGPLEDGGRHLDTVQPPKSPPRPEIAATWIVHAASEDRHCACAPRCDVPRERPSAPAGQPDDEALIPPWLFAERRALRCREWDFEALRARADTAAAPAPPAPRPARYPTVLYRHPAHHGPWLTLDEPGEADAALVLCDPLGQPLRGPERHFAAGAHMCAQARGLQAFVRVVPPPERPWADGGARAWAKFFRGCAWAQRLLGEPAVMHLPYTDGDVPQLIALALRTLAQQGAALALSVRDLPGGAAFDANAVTAAVRAGPRQSAAASPPPGDPPPPRRARRSQRHSDARGTPPPAPARDPPPPAPSPPAPPRAGDPVPPIPAGPADRARDAELEVACEPSGPPTSTRADPDSDIVESYARAAGPVHLRVRDIMDPPPGCKVVVNAANEGLLAGSGVCGAIFANATAALAANCRRLAPCPTGEAVATPGHGCGYTHIIHAVAPRRPRDPAALEEGEALLERAYRSIVALAAARRWACVACPLLGAGVYGWSAAESLRAALAATRTEPVERVSLHICHPDRATLTHASVLVGAGLAARRVSPPPTEPLASCPAGDPGRPAQRSASPPATPLGDATAPEPRGCQGCELCRYTRVTNDRAYVNLWLERDRGATSWAMRIPEVVVYGPEHLATHFPLNHYSVLKPAEVRPPRGMCGSDMWRCRGWHGMPQVRCTPSNAHAALCRTGVPPRASTRGGELDPNTCWLRAAANVAQAARACGAYTSAGCPKCAYGRALSEARTHEDFAALSQRWSASHADASPDGTGDPLDPLMETVGCACSRVWVGSEHEAPPDHLLVSLHRAPNGPWGVVLEVRARPEGGNPTGHFVCAVGGGPRRVSDRPHLWLAVPLSRGGGTCAATDEGLAQAYYDDLEVRRLGDDAMARAALASVQRPRKGPYNIRVWNMAAGAGKTTRILAAFTREDLYVCPTNALLHEIQAKLRARDIDIKNAATYERRLTKPLAAYRRIYIDEAFTLGGEYCAFVASQTTAEVICVGDRDQCGPHYANNCRTPVPDRWPTERSRHTWRFPDCWAARLRAGLDYDIEGERTGTFACNLWDGRQVDLHLAFSRETVRRLHEAGIRAYTVREAQGMSVGTACIHVGRDGTDVALALTRDLAIVSLTRASDALYLHELEDGSLRAAGLSAFLDAGALAELKEVPAGIDRVVAVEQAPPPLPPADGIPEAQDVPPFCPRTLEELVFGRAGHPHYADLNRVTEGEREVRYMRISRHLLNKNHTEMPGTERVLSAVCAVRRYRAGEDGSTLRTAVARQHPRPFRQIPPPRVTAGVAQEWRMTYLRERIDLTDVYTQMGVAARELTDRYARRYPEIFAGMCTAQSLSVPAFLKATLKCVDAALGPRDTEDCHAAQGKAGLEIRAWAKEWVQVMSPHFRAIQKIIMRALRPQFLVAAGHTEPEVDAWWQAHYTTNAIEVDFTEFDMNQTLATRDVELEISAALLGLPCAEDYRALRAGSYCTLRELGSTETGCERTSGEPATLLHNTTVAMCMAMRMVPKGVRWAGIFQGDDMVIFLPEGARSAALKWTPAEVGLFGFHIPVKHVSTPTPSFCGHVGTAAGLFHDVMHQAIKVLCRRFDPDVLEEQQVALLDRLRGVYAALPDTVAANAAYYDYSAERVLAIVRELTAYARGRGLDHPATIGALEEIQTPYARANLHDAD

Rubella Therien strain RUBVgp2

Capsid protein E2 protein E1 protein

MASTTPITMEDLQKALEAQSRALRAELAAGASQSRRPRPPRQRDSSTSGDDSGRDSGGPRRRRGNRGRGQRRDWSRAPPPPEERQETRSQTPAPKPSRAPPQQPQPPRMQTGRGGSAPRPELGPPTNPFQAAVARGLRPPLHDPDTEAPTEACVTSWLWSEGEGAVFYRVDLHFTNLGTPPLDEDGRWDPALMYNPCGPEPPAHVVRAYNQPAGDVRGVWGKGERTYAEQDFRVGGTRWHRLLRMPVRGLDGDSAPLPPHTTERIETRSARHPWRIRFGAPQAFLAGLLLATVAVGTARAGLQPRADMAAPPTLPQPPCAHGQHYGHHHHQLPFLGHDGHHGGTLRVGQHYRNASDVLPGHWLQGGWGCYNLSDWHQGTHVCHTKHMDFWCVEHDRPPPATPTPLTTAANSTTAATPATAPAPCHAGLNDSCGGFLSGCGPMRLRHGADTRCGRLICGLSTTAQYPPTRFGCAMRWGLPPWELVVLTARPEDGWTCRGVPAHPGARCPELVSPMGRATCSPASALWLATANALSLDHALAAFVLLVPWVLIFMVCRRACRRRGAAAALTAVVLQGYNPPAYGEEAFTYLCTAPGCATQAPVPVRLAGVRFESKIVDGGCFAPWDLEATGACICEIPTDVSCEGLGAWVPAAPCARIWNGTQRACTFWAVNAYSSGGYAQLASYFNPGGSYYKQYHPTACEVEPAFGHSDAACWGFPTDTVMSVFALASYVQHPHKTVRVKFHTETRTVWQLSVAGVSCNVTTEHPFCNTPHGQLEVQVPPDPGDLVEYIMNYTGNQQSRWGLGSPNCHGPDWASPVCQRHSPDCSRLVGATPERPRLRLVDADDPLLRTAPGPGEVWVTPVIGSQARKCGLHIRAGPYGHATVEMPEWIHAHTTSDPWHPPGPLGLKFKTVRPVALPRTLAPPRNVRVTGCYQCGTPALVEGLAPGGGNCHLTVNGEDLGAVPPGKFVTAALLNTPPPYQVSCGGESDRATARVIDPAAQSFTGVVYGTHTTAVSETRQTWAEWAAAHWWQLTLGAICALPLAGLLACCAKCLYYLRGAIAPR