

Table 4 Websites or softwares used in this study

Analyzed items	Tools	Websites
Gene structure prediction	NCBI	<a href="https://www.ncbi.nlm.nih.gov/Structure/cdd/wrpsb.cgi">https://www.ncbi.nlm.nih.gov/Structure/cdd/wrpsb.cgi</a>
Multiple sequence alignment of amino acids	ClustalW	<a href="https://www.genome.jp/tools-bin/clustalw">https://www.genome.jp/tools-bin/clustalw</a>
/ Protein similarity analysis	Jalview	-
Construction of phylogenetic tree	MEGA 6.0	-
Physicochemical properties of protein	ProtParam	<a href="https://web.expasy.org/cgi-bin/protparam/protparam">https://web.expasy.org/cgi-bin/protparam/protparam</a>
Analysis of protein hydrophobicity	ProtScale	<a href="https://web.expasy.org/protscale/">https://web.expasy.org/protscale/</a>
Prediction of signal peptide	SignalP	<a href="http://www.cbs.dtu.dk/services/SignalP/">http://www.cbs.dtu.dk/services/SignalP/</a>
Prediction of transmembrane structure	TMHMM Server v. 2.0	<a href="http://www.cbs.dtu.dk/services/TMHMM/">http://www.cbs.dtu.dk/services/TMHMM/</a>
Prediction of protein phosphorylation sites	Netphos 2.0 server	<a href="http://www.cbs.dtu.dk/services/NetPhos/">http://www.cbs.dtu.dk/services/NetPhos/</a>
Prediction of protein secondary structure	SOPMA	<a href="https://npsa-prabi.ibcp.fr/cgi-bin/npsa_automat.pl?page=np&lt;br/&gt;sa_sopma.html">https://npsa-prabi.ibcp.fr/cgi-bin/npsa_automat.pl?page=np sa_sopma.html</a>
Prediction of protein subcellular localization	PSORT Prediction	<a href="http://psort1.hgc.jp/form.html">http://psort1.hgc.jp/form.html</a>
Prediction of protein tertiary structure	SWISS-MODEL	<a href="https://swissmodel.expasy.org/interactive">https://swissmodel.expasy.org/interactive</a>