

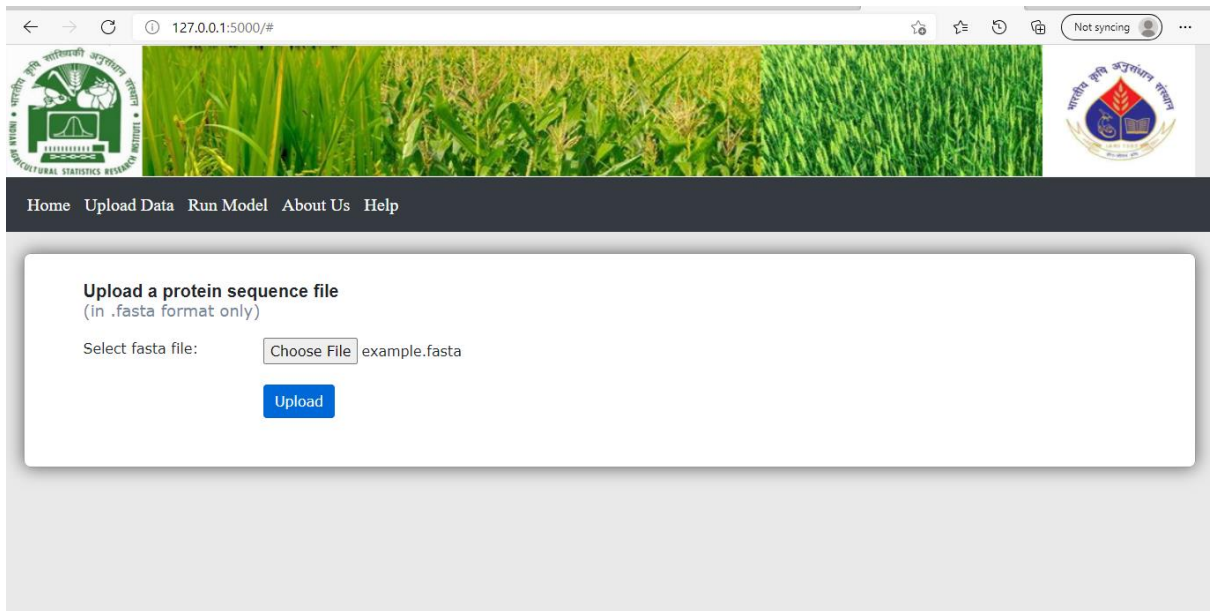
MANUAL

Step by step procedure for analysis of protein sequence(s)

1. Take the protein sequence in fasta format (can also use multiple fasta), shown below the image

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>sp|Q7XR88|STRK1_ORYSJ Salt tolerance receptor-like cytoplasmic kinase 1 OS=Oryza sativa subsp. japonica OX=39947 GN=STRK1 PE=1 SV=2
MTFGCGLFACVRRCDGGDVRKRGEGAGMSSRVAADPAGVEEEGSKNVAASARQLAWAD
VESVTGGFSSRVIGHGGSTVTVLASLSSRLGAVKVCSSERLHRAFRQELVLLSLRHF
HIVRLGVCDEDEGLVFEYAPNGDLHERLHCSEVAGGVASVLPWARRVAIAFQVAMAL
EYLHESRHPAVIHGDIKASNVLLDANNNAKLCDFGFAHVGSFATVGCRRPSARAVMGSFGY
VDPHLIRSGVATKKSVDYSFGVLLLELVTKAEVCRDTGRRLLTAAGPMLSEGVADVVD
RRLGGEHDAEAAVMAELAMQCIGDSPGLRPSMADVVRALQEKTSALASAVGSRDRKMM
F
>sp|Q5Z8S0|PYL9_ORYSJ Absciscic acid receptor PYL9 OS=Oryza sativa subsp. japonica OX=39947 GN=PYL9 PE=1 SV=1
MEAHVERALREGLTEERAALEFAPVMAHHTFFPSTTTATTAAATCTSLVTQVAAFPVRAV
WPIVRSFGNFPQRYKHFVRTCALAAGDGASVGSVRETVVSGLPASTSTERLEMLDDDRHI
ISFRVGGQHRLRNYSVTSTVFQPPAAGPGPAPPYCVVVSFVVDVVDGNTAEDTRMF
TDTVVKLNQMLAAVAEDSSASRRRD
>sp|Q1ON20|MPK5_ORYSJ Mitogen-activated protein kinase 5 OS=Oryza sativa subsp. japonica OX=39947 GN=MPK5 PE=1 SV=1
MDGAPVAEFRPTMTTHSGRYLLYDFGNKFVTNKYQPPIMPIGRGAYGIVCSVMNFETRE
MVAIKKIANAFNMDMAKRTLREIKLLRHLHDENIIGIRDVIPPPIQAFNDVYIATELM
DIDLHHIIRSNQELSEEHCQYFLYQILRLGLKYIHSANVTHRDLKPSNLLNANCDLKICD
FGLARPSSESDMMTEYVTVRWYRAPELLNSTDYSAAIDVWSVGCIFMELINRQPLFPGR
DHMHQMLRITEVIGTPTDDELGFIRNEDARKYMRHLPGYFPRITFASMFPRVQPPAALDLIE
RMLTFNPLQRITVEEALDHPYLERLHDIADDEPICLEPFSDFEQALNEDQMKQLIFNEA
IENENRY
>sp|Q6EN42|PYL3_ORYSJ Absciscic acid receptor PYL3 OS=Oryza sativa subsp. japonica OX=39947 GN=PYL3 PE=1 SV=1
MEVVGGAEEAAGRWRLADERCDLRAAEYEVRRFHRHEDRHOQCSSAVAKHIKAPVH
LWVSLVRRFDQPOLFPFVSRCEMKGNIEIGSVREVNKSGLPATSTERLEMLDDNEHI
LSVRVGGDHRLKNYSILTVHFEVIDGRPTLVIESFVVDVPEGNTKDETCYFEALLK
CNLKSLEAVSERLVVKDTEFLDR
>sp|Q6X4A2|CIPK3_ORYSJ CBL-interacting protein kinase 31 OS=Oryza sativa subsp. japonica OX=39947 GN=CIPK31 PE=1 SV=1
MYRAKRAALSPKVKRRVGVKYLGRITIGETFAKVRFAKNTENDEPVAIKILDKEKVKHR
LVEQIRREICTMKLVKHNVRVRLFEVMSGKARIFIVLEVYTGGLFEIATNGRLKEEEA
RKYFQQLINAVDYCHSRGVYHRDLKLENLLDASGNLKVSDFGLSALTEQVKADGLLHTT
CGTPNYVAPEVIEDRGYDGAADIWSCGVILYVLLAGFLPFEDDNIILYKIKISEAOTFC
PSWFSTGAKKLITRILDNPITRITISQILEDPWFKKGYKPPVFDEKYETSFDVDVDAFG
DSEDRHVKEETEDQPTSMNAFELISLNQALNLDNLFEAKKEYKRETRFTSQCPKEIITK
IEEAAKPLGDIQKKNYMRMENLKAGRKGNLVATEVFQVAPSLHVVVELKKAKGDTLEF
QKRYRTLSTQLKDVVWKCDEGEVNGAAA
>sp|P53684|CDPK7_ORYSJ Calcium-dependent protein kinase 7 OS=Oryza sativa subsp. japonica OX=39947 GN=CPK7 PE=2 SV=2
MGNQCQNGTLGSDYHNRFREHAGVYVQSDSYLDLKKFDDTWFEVNNFKPTAASILRRGL
DPTISINVLRGTADLREHYIIGRKLGGQGGTTLCTEINTGCEYACKTIFPKRLITKED
```

2. Click on the upload option, an then choose the bottom will appear, here choose your fasta file and the click on upload option, shown below



The screenshot shows a web browser window with the URL 127.0.0.1:5000/#. The website has a header with a logo on the left and a navigation bar with links: Home, Upload Data, Run Model, About Us, and Help. A dialog box titled 'Upload a protein sequence file (in .fasta format only)' is open. It contains a 'Select fasta file:' label, a 'Choose File' button, and a text input field containing 'example.fasta'. Below these is an 'Upload' button. The background of the website shows a green field of rice plants.














3. After uploading the file, go to run model. Then choose the model type and activation function. Finally click on “Run Model”

Choose the suitable Model type with suitable Activation Function:

Model Type:

Activation Function:

4. Finally, download the result I excel file. IN excel file, first row contain the staring. From second line, the results are obtained. Left column contain the serial number of the sequence and second column contain the class of the corresponding sequences, shown below

FILE		HOME		INSERT		PAGE LAYOUT		FORMULAS		DATA		REVIEW		VIEW	
 Cut  Copy  Paste  Format Painter		Calibri 11 A A		  		 Wrap Text  Merge & Center		General		 %  .00  .00		 Conditional Formatting			
Clipboard		Font		Alignment		Number									
Q3															
	A	B	C	D	E	F	G	H	I						
1		0	It shows stating or zero line of the sequenes												
2	0	0													
3	1	1													
4	2	0													
5	3	1													
6	4	0													
7	5	0													
8	6	0													
9	7	1													
10	8	0													
11	9	0													
12	10	0													
13															
14															
15															
16	sequence number serial	Class of sequences													
17		0->Absent													
18		1->Present													
19															
