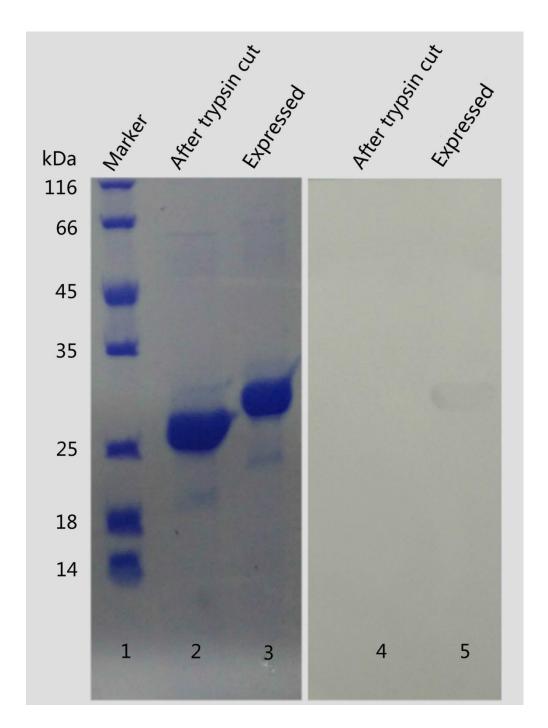


Volume 73 (2017)

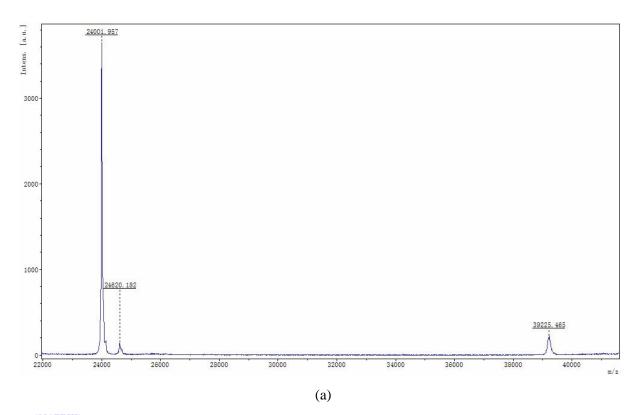
Supporting information for article:

DNA-binding domain of myelin gene regulatory factor: purification, crystallization and X-ray analysis

WenYu Wu, Xiangkai Zhen and Ning Shi



Supplementary Figure S1. The result of Western blot with an anti-His mAb shows that the N-terminal His tag of expressed MyRF DBD is removed by trypsin. Left: the proteins were analyzed by 15% SDS-PAGE. Right: the Western blot result of the proteins on the left SDS-PAGE. Lane 1: protein marker. Lane 2: expressed MyRF DBD after treated by trypsin-limited proteolysis (using for crystallization). Lane 3: 300 imidazole elute from Ni column that contains the expressed and purified auto-cleaved product of MRF DBD. Lanes 4: the WD of lane2. Lanes 5: the WD of lane3.



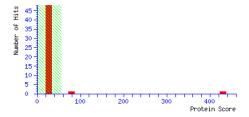
(MATRIX) Mascot Search Results

User :
Email :
Search title : Project: zxw, Spot Set: zxw\201703, Label: F11, Spot Id: 2213967, Peak List Id: 2713045, MS Job Run Id: 67165
MS data file : C:\Users\administrator\Desktop\MGF.txt
Database : SPMouse1503 (16711 sequences: 9387744 residues)
Timestamp : 6 Apr 2017 at 05:57:35 GMT
Warning : A Peptide summary report will usually give a much clearer picture of MS/MS search results.
Top Score : 429 for sp\Q3UR85\MRF_MOUSE, Myelin regulatory factor OS=Mus musculus GN=Myrf PE=1 SV=2

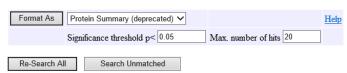
Mascot Score Histogram

Protein score is -10*Log(P), where P is the probability that the observed match is a random event. Protein scores greater than 55 are significant (p<0.05).

Protein scores are derived from ions scores as a non-probabilistic basis for ranking protein hits.



Protein Summary Report



Index

Accession	Mass	Score	Description
 sp Q3UR85 MRF_MOUSE 	123210	429	Myelin regulatory factor OS=Mus musculus GN=Myrf PE=1 SV=2
sp Q3UN70 MRFL MOUSE	101625	93	Myelin regulatory factor-like protein OS=Mus musculus GN=Myrfl PE=2 SV=1

Supplementary Figure S2. (a) The result of MALDI-TOF-Mass spectrometry shows the molecular weight of MyRF DBD using for crystallization which matches the sequence 351-559 of MyRF with calculated MW 24,002 Dalton. (b). MASCOT search results for the crystals in this experiment, showing only matches with scores > 80. MASCOT reports scores as -10*Log(P), where P is the probability that the observed match is a random event. A probability of 10 - 20 thus becomes as core of 200. Note that as core above 80 is considered significant (p < 0.05).