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Summary

| **Date:**18/06/2022 | **Analysis:**Histoplasma1 | **Email:**laura.c.afonso@gmail.com |

Proteins found

Protein EEH10718.1	Protein EEH11056.1	Protein EEH04925.1	Protein EEH09124.1
Sequence	**Sequence**	**Sequence**	**Sequence**
MRQTPTSNPRYSALP ESSSETELQDIPWRSP EPGEEEDNNYHDD VRSAGGNSPEGEIIGA EGAELTEDKFAPFPD MHHDPNPILTFRALLI GCLCGALVNASNIYL GLKAGWTTSANIFGS IVGFAVLKSWTKYTS QNNFGPHENNIVQT AATAAGGLSNVFVSA IPALYQLGLLSVPVKD FFRITTLTAIGGYFGLL TIAPLRNFFLVQVARE LNLIFPSSSATAITIRS MHQAASGASMARH KLAALLYAFIFAVLLRV ASQYAIGILWDWHPF TWLVSGGVLVEWAM SMESWGWIVEWTPA FIGSGMLVGINVAVSF TAGSVLAWGIIGPYLV RHGLAFGEPASTDSK WSSLMSYSSLSKDFA TASHPSPRYWLLWPG VITMAAVALAELACQ WRVFWIIGRDSTRAV SNILSQLRNGNHRYT LMTEKDEGAADDSK DSVKVWMWLPGLVF	MGALLDQKVDCPPP PACAKCTETATIETARY VAERGQAVTDHYGR PLVQFDLAAEARLRW KIDLQRELAGLERDL NLKHYDYNTVLSIFYI CYIIFEIPSNMACKWI GPGWYLPAISLAFGIT SIATAFVHNIHEICGV RFILGVFEAGMLPGIA YYMSRWCRKSELTFR LSLYIVMAPLAGAFG GLLASAILKLSNVGSL HEWRMIFAIIIGFFTLT DRLANALWLTQEEKD LAIARIKSERVGVTEG LAFFAPTIVKTIYPDRS VISQQLHTVPPYLVGS FFTVLFPFLSWKFNRC LLFFILGAPFVMVGYI MFLASNDPKVRYGA AFIIASGAFSLGALSSA NVAANIVSDTARSSAI GTNVMFGNIGSLVAT WSFLPSDSPDYRIGN SLNLATSSSILICSVAS LFWMNMDNKKRDR INVEKKLAHLSQKQI QDLDWRHPGFRWK P	MRLSWALGLVVTILT VTETAGLRNWFSKAV YNRWHETELERWLS DHDIPYPTPADRKDL EELVKNNWESRVQIPI HHTVEHVADYLGDA KEWIFDTWSDSQLKT FLDKHGISSPQPNKR DKLLAVVRENYEAIAR KLGQTTFYPGNWLYE QWSESDLKEYLDSHG YHVPQPTTRDKLVAS VRRNARLASIKSRQA AASASSSAEAAQKSL SEALFNAWSESEFKEF FDKHGIKVPQGSRRN ELIALARKHRASLLQK PTASVTHAYGAATSK AGNEFARATEDVRLR AADMFNSAISQWSD SRLKAYLDARGVQVP QGTKRDELLAKVRLH RRKAMTGFSAWTFD TWTKENLGKYMSSQ HQKMMENVEYTRDE LLRKAKSAYNQVSNA GGEDFAAVTNYLAQ QVSSTKDAAFDTWS RVDLEKYIDSYGLKGH KTWDINKLREEARRN	MKFSSVLAGAVLAGS AFADLNPIVIKGSKFF VEATGDEFFFKGVAY QEDISSNGTTSKNSH YKDPLANSDNCKRDI PFLKELGTNVIRVYAID PEADHKDCMQMLQ DAGIYVVADLSEPNT SINRDDPKWDVELYA RYMAVVDVLAPWSN TLGFFAGNEVSNQQS NTNASAFVKAAVRDT KSYIKQKGYRPMGVG YATNDDADIRDDMA DYFNCKSRDESIDFW GYNIYSWCGDSSYKE SGYDKVVAEFSTYSV PVFFAEYGCNEVRPRI FTEVKALYGPQMTPV VSGGIVYMYFQEENN YGLVNVNGDNVKPR VDYNNLKKQISGVNP KGVSMNDYKVENLQ LRKCPATGSAWQSSA TLPPVPNKQLCQCM VNSLSCVAKSSVDDE DLGKYFGTVCGLGKG VCDGIASKPEDGVYG AYSMCDPRDQLSFAF NTYFLQQNGASDAC

Data submitted

VIVVACPVLKYQFGM
RVSESLFALFLAFILSL
MAIQATGATDTTPLGI
LSKVSQVTLSSTTRD
QTVQNSQRLNLLGG
ALTNIGGSQACDLM
GDFRVGYLLGTSPRL
QYSAQLIGTLFATFFA
PSIFLIFATAYPCILSTE
NNPPTTSNNSTTTPT
NACEFSSPSVAAWRA
VAVAATEPVLPIPHTS
LTFSIVMAIIGVLMIIIR
HSVWVGKWERMRA
YHPNVMILAMAFTLP
SPQYGIAMLIGSLVAV
VWHWKAPLGYEAFG
YAVAAGFMAGEGIGG
TVNALLSVLGVGGER
LGTRVGCPAGRC

ANFFRYGELAQEATL
VSRLEGGIQWVLDQL
KIGMLSGRREGERVA
DNIKETVSHGTQRM
ADEL

DFKGAAELQDSKKPT
GTCADLLKQAGTDGK
GTVTSAPNTGPSSTT
SSAAISTTIPAFNMGL
LSVGAYVVCGVLAGF
GIVLL

MHC alleles, linkers and adjuvant

Alleles

MHCI - Alleles
HLA-A*01:01
HLA-A*02:01
HLA-A*02:03
HLA-A*02:06
HLA-A*03:01
HLA-A*11:01

MHCII - Alleles
HLA-DRB1*01:01
HLA-DRB1*03:01
HLA-DRB1*04:01
HLA-DRB1*04:05
HLA-DRB1*07:01
HLA-DRB1*08:02
HLA-DRB1*09:01
HLA-DRB1*11:01
HLA-DRB1*12:01
HLA-DRB1*13:02

linkers

MHCI - Linker
AAY

MHCII - Linker
GPGPG

Add-ons

Adjuvant
EAAAK

HLA-A*23:01

HLA-A*24:02

HLA-A*26:01

HLA-A*30:01

HLA-A*30:02

HLA-A*31:01

HLA-A*32:01

HLA-A*33:01

HLA-A*68:01

HLA-A*68:02

HLA-B*07:02

HLA-B*08:01

HLA-B*15:01

HLA-B*35:01

HLA-B*40:01

HLA-B*44:02

HLA-B*44:03

HLA-DRB1*15:01

HLA-DRB3*01:01

HLA-DRB3*02:02

HLA-DRB4*01:01

HLA-DRB5*01:01

HLA-DQA1*05:01/DQB1*02:01

HLA-DQA1*05:01/DQB1*03:01

HLA-DQA1*03:01/DQB1*03:02

HLA-DQA1*04:01/DQB1*04:02

HLA-DQA1*01:01/DQB1*05:01

HLA-DQA1*01:02/DQB1*06:02

HLA-DPA1*02:01/DPB1*01:01

HLA-DPA1*01:03/DPB1*02:01

HLA-DPA1*01:03/DPB1*04:01

HLA-DPA1*03:01/DPB1*04:02

HLA-DPA1*02:01/DPB1*05:01

HLA-B*51:01	HLA-DPA1*02:01/DPB1*14:01
HLA-B*53:01	
HLA-B*57:01	
HLA-B*58:01	

MHC methods and parameters

Methods

MHCI - Methods	MHCII - Methods
netmhccons	nn_align

Parameters

Params

Number Of Chimeric Models	Size Of MHCI Epitopes	Size Of MHCII Epitopes	Number Of Random Models
1000	9	15	1

IC50 MHCI	IC50 MHCII	p1	p2
10	50	1	1

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