

Human virus protein-protein interaction database and platform of interaction annotation and analysis [See our latest related publication]

11-11-11

Interaction information		Comprehensive score	Complex structure	Human complex	DEGs For human	Tissue specific expression
Human protein: CPSF4_HUMAN				Virus protein: NS1_I72A2 (H3N2)		
UniProtID: O95639				UniProtID: P03495		
Gene name(s): CPSF4;CPSF30;NAR;NEB1				Gene name(s): NS		
Protein name: Cleavage and polyadenylation specificity factor subunit 4				Protein name: Non-structural protein 1		
Gene ID: 10898				Gene ID: NA		
HDF/HRF: NA				Viral family: Orthomyxoviridae		
Interaction	Source database			PubMed ID	Detection method	
O95639-P03495	PHISTO,HPIDB,VirusMentha,virhostnet,DIP,PDB			20064372,18725644,10205180,1610791	x-ray crystallography,two hybrid,coimmunoprecipitation	

Interaction information	Comprehensive score	Complex structure	Human complex	DEGs for Human	Tissue specific expression
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#2

Evidence suggesting a protein interaction:

Interolog evidence:	yes (score 1.000).	Show
DDI evidence:	yes (score 0.046).	Show
Machine learning evidence:	yes (score 0.895).	

Combined Score: 1.000



Human	Virus	PDB/Template	Chain_H	Chain_V	Identity_H	Coverage_H	Identity_V	Coverage_V	Structure_Source
Q95639	P03495	2rhk	B	D	NA	NA	NA	NA	Experimentally verified structure

Interaction information
Comprehensive score
Complex structure
Human complex
DEGs For human
Tissue specific expression

#4

Show 10 entries

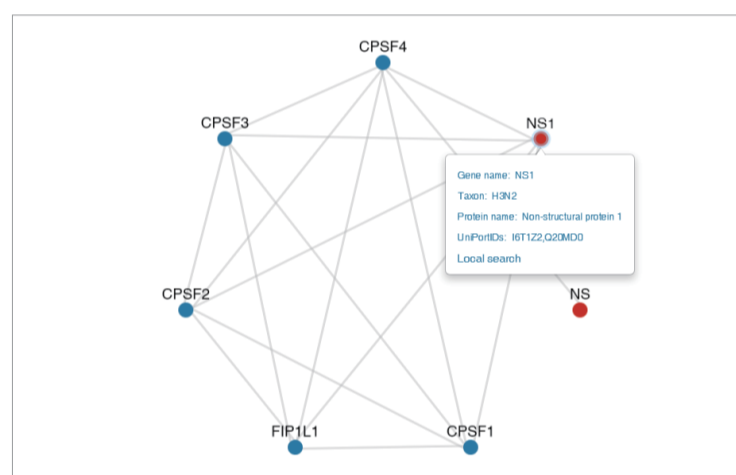
Virally targeted human complex

Click

Search:

Complex id	Complex name	Complex size	Target ratio	Pmid	Source	Detail
1144	Cleavage and polyadenylation factor (CPSF)	5	1.00 (5/5)	14749727	CORUM	View
1331	Cleavage and polyadenylation factor (CPSF)	6	0.83 (5/6)	NA	hu.MAP	View
3387	Cleavage and polyadenylation factor (CPSF)	7	0.86 (6/7)	NA	hu.MAP	View

Showing 1 to 3 of 3 entries
Previous
1
Next



Layout Save Image As PNG Save Image As JPG

Example D-11.4

Complex ID: 1144

Targeted by virus: H3N2

Number of targets/complex size: 150 (6/5)

Host dependency factors (HDFs): NA

Host restriction factors (HRFs): NA

Interaction information
Comprehensive score
Complex structure
Human complex
DEGs for human
Tissue specific expression

#5

Differentially expression condition

Show 10 entries
Search:

Series	Control	Treatment	Regulation	Log2FC	Adj.P.Val	Data type
GSE65574	MCL001_mock_7h	MCL001_icMERS_7h	down	-2.22	1.40e-02	Microarray data
GSE65574	MCL001_mock_7h	MCL001_RFP-MERS_7h	down	-3.26	1.02e-03	Microarray data
GSE89008	HTBE_H5N1_MOI0_mock_infected_12h	HTBE_H5N1_MOI5_infected_12h	down	-1.55	1.93e-06	RNA-Seq data
GSE97672-GPL16791	MDM-418_H3N2_MOI0_12h	MDM-418_H3N2_MOI2_12h	down	-1.77	2.01e-02	RNA-Seq data
GSE97672-GPL16791	MDM-520_H5N1_MOI0_12h	MDM-520_H5N1_MOI2_12h	down	-2.15	1.92e-14	RNA-Seq data
GSE97672-GPL16791	MDM-520_H5N1_MOI0_18h	MDM-520_H5N1_MOI2_18h	down	-2.11	1.33e-09	RNA-Seq data
GSE97672-GPL18573	MDM-513_H5N1_MOI0_18h	MDM-513_H5N1_MOI2_18h	down	-2.12	2.54e-09	RNA-Seq data
GSE97672-GPL18573	MDM-513_H5N1_MOI0_12h	MDM-513_H5N1_MOI2_12h	down	-2.09	7.95e-10	RNA-Seq data
GSE99298	mock_infected_0h	hRSV_NS1_1_118_infected_96h	up	6.45	1.87e-02	RNA-Seq data
GSE99298	mock_infected_0h	hRSV_NS1_Y125A_infected_96h	up	5.80	3.14e-10	RNA-Seq data

Showing 11 to 20 of 20 entries

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Step1: select a series

By class

Virus family

20 +

Data type

2 +

By series

GSE97672-GPL16791

Step2: select a group

Select a group of GSE97672-GPL167 ▾

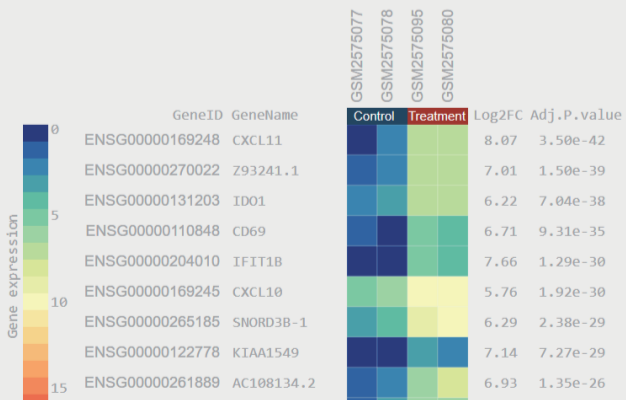
GSE97672-GPL16791

Data type: RNA-Seq data
Virus family: Orthomyxoviridae
Platform: GPL16791
PubMed ID: 30146161
Tissue/Cell: Human monocyte-derived macrophage (MDM) cell
Infected with: H1N1, H3N2, and H5N1 influenza virus

GSE97672-GPL16791 MDM-418 H3N2 MOI0 12h-MDM-418 H3N2 MOI2 12h

Regulation: Up ▼ Gene order: by p value ▼

Download



Human tissue specific expression (TPM)

Tissue	TPM
Cerebral cortex	20.2
Salivary gland	8.7
Tonsil	19.0
Thyroid gland	17.4
Parathyroid gland	12.7
Esophagus	16.6
Heart muscle	7.1
Breast	16.1
Stomach	11.3
Spleen	20.0
Kidney	9.8
Pancreas	6.0
Placenta	24.7
Small intestine	12.4
Fallopian tube	19.8
Ovary	17.6
Endometrium	18.7
Cervix, uterine	14.8
Urinary bladder	14.1
Bone marrow	12.9
Skin	24.9
Skeletal muscle	9.3
Testis	43.8
Epididymis	14.9
Prostate	19.6
Seminal vesicle	17.9
Rectum	12.4
Smooth muscle	17.1
Appendix	19.1
Colon	11.2
Duodenum	14.2
Adrenal gland	16.3
Gallbladder	18.1
Liver	5.0
Lymph node	27.6
Lung	15.5
Adipose tissue	20.1