

LAMPIRAN

Lampiran 1. Data kandungan kimia dari KNapSack

input type = all, input word = cucumis melo

Number of matched data 28

CAS ID	Metabolite	Molecular formula	Mw	Organism or InChIKey etc.
C00000001	Gibberelin A1	C19H24O6	348 1572865	Cucumis melo
C00000002	Gibberelin A3	C19H22O6	346 14163844	Cucumis melo
C00000004	Gibberelin A4	C19H24O5	332 16237388	Cucumis melo
C00000005	Gibberelin A5	C19H22O5	330 14672381	Cucumis melo
C00000008	Gibberelin A6	C19H24O7	364 15220312	Cucumis melo
C00000020	Gibberelin A20	C19H24O5	332 16237388	Cucumis melo
C00000034	Gibberelin A34	C19H24O6	348 1572865	Cucumis melo
C00000358	Hexan-1-ol	C6H14O	102 10446507	Cucumis melo
C00003682	Cucurbitacin A	C32H46O9	574 31418307	Cucumis melo
C00003683	Cucurbitacin B	C32H46O8	558 31926645	Cucumis melo
C00003688	Cucurbitacin H	C30H46O8	534 31926645	Cucumis melo
C00006210	Isoorientin 2''-O-glucopyranoside	C27H30O16	610 15338491	Cucumis melo
C00006223	Meloside A	C27H30O15	594 15847026	Cucumis melo
C00009742	Arvenin I	C38H56O13	720 37209188	Cucumis melo
C00009743	Arvenin III	C38H54O12	678 36152719	Cucumis melo
C00003843	Isocucurbitacin R	C39H46O7	510 32435382	Cucumis melo
C00047647	19-Norlanosta-5,24-dien-11-one	C29H46O	410 35486609	Cucumis melo
C00047823	Cucurbitacin G	C30H46O8	534 31926645	Cucumis melo
C00047824	Cucurbitacin R	C30H46O7	518 32435382	Cucumis melo
C00047845	Dihydroisocucurbitacin B	C32H46O8	560 33491851	Cucumis melo
C00054652	S-Acetoxy-3-nonen	C11H20O2	184 14632988	Cucumis melo
C00054736	1-Acetoxy-3,6-nonadiene	C11H18O2	182 13067982	Cucumis melo
C00055024	CmCTI-I	C130H213N33O39S8	3116 346841015	Cucumis melo var. conomon Makino
C00055026	CmCTI-III	C141H230N38O42S8	3383 47954959	Cucumis melo var. conomon Makino
C00056779	5,7-Dihydroxy-2-(4-hydroxyphenethyl)chromone	C17H14O5	298 08412356	Cucumis melo var. reticulatus
C00056780	2-(2-(3,4-Dihydroxyphenyl)ethyl)-5,7-dihydroxy-4H-1-benzopyran-4-one	C17H14O6	314 07903818	Cucumis melo var. reticulatus
C00056884	2,18,19,20,25-Pentahydroxycucurbit-5-ene-3,11,22-trione	C30H46O8	534 31926645	Cucumis melo
C00057013	3-Nonen-1-yl acetate	C11H20O2	184 14632988	Cucumis melo

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Tanaman melon (*Cucumis melo* L.)

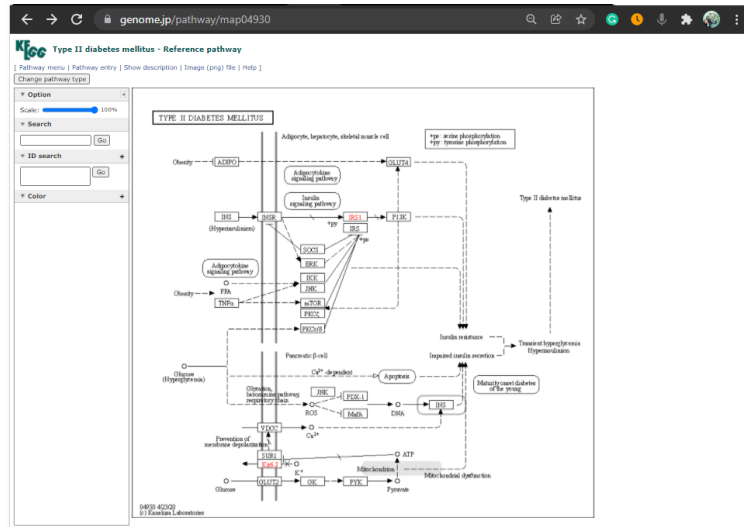
input type = all, input word = cucumis sativus

Number of matched data 49

CAS ID	Metabolite	Molecular formula	Mw	Organism or InChIKey etc.
C00000001	Gibberelin A1	C19H24O6	348 1572865	Cucumis sativus
C00000002	Gibberelin A3	C19H22O6	346 14163844	Cucumis sativus
C00000004	Gibberelin A4	C19H24O5	332 16237388	Cucumis sativus
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C00000020	Gibberelin A20	C19H24O5	332 16237388	Cucumis sativus
C00000034	Gibberelin A34	C19H24O6	348 1572865	Cucumis sativus
C00001102	Indole-3-acetaldehyde	C9H9NO	156 08841392	Cucumis sativus
C00001114	Indole-3-carboxaldehyde	C9H7NO2	145 05292395	Cucumis sativus L.
C00001111	Indole-3-carboxylic acid	C9H7NO2	161 04787848	Cucumis sativus L.
C00001114	Indole-3-L-tryptophan	C11H11NO2	187 08495360	Cucumis sativus
C00001136	p-Coumaric acid	C9H8O3	164 04734412	Cucumis sativus
C00001159	Isovitexin	C21H20O10	422 10584886	Cucumis sativus
C00001162	Cisrocin	C19H20O11	448 10594148	Cucumis sativus
C00001170	Vitexin	C21H20O10	432 10584886	Cucumis sativus
C00001181	Sisocin	C19H20O11	345 11621185	Cucumis sativus
C00001136	Galactinol	C12H22O11	342 11621185	Cucumis sativus
C00001139	IE-2'-O-beta-D-glucopyranoside	C24H40O10	138 10448507	Cucumis sativus
C00001420	S-Hydroxytryptamine	C10H12NO2	176 09480302	Cucumis sativus
C00001424	Tryptamine	C10H12NO2	160 1000484	Cucumis sativus
C00001641	Schizocoumarin	C24H20O5	414 34819932	Cucumis sativus
C00003873	Sennoside B	C38H48O9	412 37058105	Cucumis sativus
C00003924	Cucurbitacin C	C32H46O8	560 33491851	Cucumis sativus
C00003926	Lupan	C40H58O2	568 42803103	Cucumis sativus L.
C00004114	Argent-1''-(8''-p-coumaroyl)glucoside	C39H56O12	576 1442483	Cucumis sativus
C00004338	Argent-3''-glucoside	C21H20O12	484 02647811	Cucumis sativus
C00004344	Meloside A	C27H30O15	594 15847026	Cucumis sativus
C00004344	Saponin	C27H30O15	594 15847026	Cucumis sativus
C00004389	Vicin II	C27H30O15	594 15847026	Cucumis sativus
C00004394	Isoosonin 2''-(8''-E)-p-coumaroyl)glucoside	C39H56O18	710 20581447	Cucumis sativus
C00004444	Adenosine	C10H13NO4	267 56873394	Cucumis sativus L.
C00004529	Sucrose 6-phosphate	C12H22O14P	422 08284184	Cucumis sativus
C00004614	Cucumerin B	C26H36O11	565 16318174	Cucumis sativus
C00004813	Cucumerin A	C26H36O11	562 16318174	Cucumis sativus
C00004828	Isovitexin 2''-O-(8''-E)-p-coumaroyl)glucoside	C39H56O17	740 16248793	Cucumis sativus
C00004881	Isovitexin 2''-O-(8''-E)-p-coumaroyl)glucoside e 4''-O-glucoside	C42H48O22	902 24887316	Cucumis sativus
C00004898	Isovitexin 2''-O-(8''-E)-p-coumaroyl)glucoside	C39H56O18	710 20581441	Cucumis sativus
C00004938	Isovitexin 2''-O-(8''-E)-p-coumaroyl)glucoside 4''-O-glucoside	C42H48O23	912 26883184	Cucumis sativus
C00004107	Isoosonin 4''-O-glucoside	C28H32O16	604 14600348	Cucumis sativus
C00004938	(+)-Dehydrovomifolol	C15H18O3	252 12599444	Cucumis sativus L.
C00004938	Cucumagastigmine I	C19H20O4	240 12615613	Cucumis sativus L.
C00004939	Cucumagastigmine II	C19H20O9	380 11073224	Cucumis sativus L.
C00004940	Saponin 4''-O-glucoside	C28H40O20	750 21158402	Cucumis sativus
C00004938	S-Hydroxytryptamine	C10H12NO2	160 1000484	Cucumis sativus
C00004938	Malonin	C13H18NO2	232 12117177	Cucumis sativus
C00004938	2-Benzoyloxibenzoin	C17H16O3	151 05918492	Cucumis sativus
C00004938	Cucumer alcohol	C9H18O	140 12011515	Cucumis sativus
C00004938	CSTI I	C14H23N13O17Y0A8S	3638 38883988	Cucumis sativus
C00004938	CSTI IV	C14H23N13O17S	3430 42005448	Cucumis sativus

Tanaman mentimun (*Cucumis sativus* L.)

Lampiran 2. Identifikasi protein target dari *pathway* DM Tipe II



Lampiran 3. Validasi nama gen dari UniProt

The screenshot shows the UniProt search results for the query 'mtor'. The results are filtered by 'Reviewed' status and show 25 of 9,674 results. The table below summarizes the top entries:

Entry	Entry name	Protein names	Gene names	Organism	Length
P42345	MTOR_HUMAN	Serine/threonine-protein kinase mTOR...	MTOR FRAP, FRAP1, FRAP2, RAFT1, RAP1	Homo sapiens (Human)	2,549
Q93LN9	MTOR_MOUSE	Serine/threonine-protein kinase mTOR...	Mtor Frap, Frap1	Mus musculus (Mouse)	2,549
P42346	MTOR_RAT	Serine/threonine-protein kinase mTOR...	Mtor Frap1, Raft1	Rattus norvegicus (Rat)	2,549
Q6P986	MEAK7_HUMAN	MTOR-associated protein MEAK7	MEAK7 KIAA1609, TLDC1	Homo sapiens (Human)	456
Q8N122	RPTOR_HUMAN	Regulatory-associated protein of mT...	RPTOR KIAA1303, RAPTOR	Homo sapiens (Human)	1,335
Q8K4Q0	RPTOR_MOUSE	Regulatory-associated protein of mT...	Rptor Raptor	Mus musculus (Mouse)	1,335
Q6R327	RICTR_HUMAN	Rapamycin-insensitive companion of ...	RICTOR KIAA1999	Homo sapiens (Human)	1,708
Q8T845	DPTOR_HUMAN	DEP domain-containing mTOR-interact...	DEPTOR DEPDC6	Homo sapiens (Human)	409
Q6Q106	RICTR_MOUSE	Rapamycin-insensitive companion of ...	Rictor Kiaa1999	Mus musculus (Mouse)	1,708
Q9UPX6	MINAR1_HUMAN	Major intrinsically disordered Notc...	MINAR1 KIAA1024, UBTOR	Homo sapiens (Human)	916
E2R2L2	E2R2L2_CANLF	Serine/threonine-protein kinase mTOR...	MTOR	Canis lupus familiaris (Dog) (Canis familiaris)	2,647
F1R88	F1R88_PIG	Serine/threonine-protein kinase mTOR...	MTOR	Sus scrofa (Pig)	2,548

mTOR (*Serine/threonine-protein kinase mTOR*)

UniProtKB 2021_04 results

Filter by: Reviewed (284), Unreviewed (20,508)

Popular organisms: Human (96), Mouse (74), Rat (35), Bovine (33), Zebrafish (9)

Search terms: Filter 'ikkb' as: gene name (692), protein name (257)

Entry	Entry name	Protein names	Gene names	Organism	Length
O14920	IKKB_HUMAN	Inhibitor of nuclear factor kappa-B...	IKBKB IKKB	Homo sapiens (Human)	756
O88351	IKKB_MOUSE	Inhibitor of nuclear factor kappa-B...	Ikbbk ikkb	Mus musculus (Mouse)	757
Q95KV0	IKKB_BOVIN	Inhibitor of nuclear factor kappa-B...	IKBKB	Bos taurus (Bovine)	756
Q9QY78	IKKB_RAT	Inhibitor of nuclear factor kappa-B...	Ikbbk ikkb	Rattus norvegicus (Rat)	757
Q96Q05	TPPC9_HUMAN	Trafficking protein particle comple...	TRAPPC9 KIAA1882, NIBP, T1	Homo sapiens (Human)	1,148
Q3U0M1	TPPC9_MOUSE	Trafficking protein particle comple...	Trappc9 Kiaa1882, Nibp	Mus musculus (Mouse)	1,148
Q5D0E0	Q5D0E0_MOUSE	I-kappa-B kinase	Ikbbk IKK-2, IKK-beta, IKK2, IKK[b]	Mus musculus (Mouse)	757
A0A3Q2HXK2	A0A3Q2HXK2_HORSE	I-kappa-B kinase	IKBKB	Equus caballus (Horse)	770
Q70UQ0	IKIP_HUMAN	Inhibitor of nuclear factor kappa-B...	IKBIP IKIP	Homo sapiens (Human)	350
Q9V1L0	BRUN_DROME	Protein brunelleschi	brun bru, CG2478	Drosophila melanogaster (Fruit fly)	1,320
A54757	A54757_PIG	I-kappa-B kinase	IKBKB	Sus scrofa (Pig)	755
H2QW34	H2QW34_PANTR	I-kappa-B kinase	IKBKB	Pan troglodytes (Chimpanzee)	763
F6SHC1	F6SHC1_MACMU	I-kappa-B kinase	IKBKB	Macaca mulatta (Rhesus macaque)	756
F6ZE58	F6ZE58_ORNIAN	I-kappa-B kinase	IKBKB	Oreithorhynchus anatinus	757

IKBKB/IKKB (*Inhibitor of nuclear factor Kappa-B Kinase subunit Beta/ I-kappa-B kinase beta*)

UniProtKB 2021_04 results

Filter by: Reviewed (62), Unreviewed (1,066)

Popular organisms: Human (92), Mouse (28), Rat (16), Bovine (8), Zebrafish (7)

Search terms: Filter 'mapk10' as: gene name (1,011), protein name (61)

Entry	Entry name	Protein names	Gene names	Organism	Length
P53779	MK10_HUMAN	Mitogen-activated protein kinase 10	MAPK10 JNK3, JNK3A, PRKM10, SAPK1B	Homo sapiens (Human)	464
Q61831	MK10_MOUSE	Mitogen-activated protein kinase 10	Mapk10 Jnk3, Prkm10, Serk2	Mus musculus (Mouse)	464
Q49187	MK10_RAT	Mitogen-activated protein kinase 10	Mapk10 Jnk3, Prkm10	Rattus norvegicus (Rat)	464
A0A0R4KKX9	A0A0R4KKX9_DANRE	Stress-activated protein kinase JNK	mapk10	Danio rerio (Zebrafish) (Brachydanio rerio)	472
E9QN59	E9QN59_MOUSE	Stress-activated protein kinase JNK	Mapk10	Mus musculus (Mouse)	494
Q32LVO	Q32LVO_DANRE	Stress-activated protein kinase JNK	mapk10	Danio rerio (Zebrafish) (Brachydanio rerio)	430
A0A0R4IB91	A0A0R4IB91_DANRE	Stress-activated protein kinase JNK	mapk10	Danio rerio (Zebrafish) (Brachydanio rerio)	433
A0A0R4I9H8	A0A0R4I9H8_DANRE	Stress-activated protein kinase JNK	mapk10	Danio rerio (Zebrafish) (Brachydanio rerio)	384
A4QP40	A4QP40_DANRE	Stress-activated protein kinase JNK	mapk10	Danio rerio (Zebrafish) (Brachydanio rerio)	384
A0A0R4IN30	A0A0R4IN30_DANRE	Stress-activated protein kinase JNK	mapk10	Danio rerio (Zebrafish) (Brachydanio rerio)	210
F1PMN2	F1PMN2_CANLF	Stress-activated protein kinase JNK	MAPK10	Canis lupus familiaris (Dog) (Canis familiaris)	467
K7GP94	K7GP94_PIG	Stress-activated protein kinase JNK	MAPK10	Sus scrofa (Pig)	473
A0A337ST22	A0A337ST22_FELCA	Stress-activated protein kinase JNK	MAPK10	Felis catus (Cat) (Felis silvestris catus)	426
A4PV00	A4PV00_BOVIN	Stress-activated protein	MAPK10	Bos taurus (Bovine)	426

MAPK10/JNK3 (*Mitogen-activated protein kinase 10/ c-Jun N-terminal kinase 3*)

UniProtKB search results for 'mapk1'. The table shows various protein entries across different species, including humans, mice, rats, and various other mammals and birds.

Entry	Entry name	Protein names	Gene names	Organism	Length
P28482	MK01_HUMAN	Mitogen-activated protein kinase 1	MAPK1 ERK2, PRKM1, PRKM2	Homo sapiens (Human)	360
P63085	MK01_MOUSE	Mitogen-activated protein kinase 1	Mapk1 Erk2, Mapk, Prkm1	Mus musculus (Mouse)	358
P63086	MK01_RAT	Mitogen-activated protein kinase 1	Mapk1 Erk2, Mapk, Prkm1	Rattus norvegicus (Rat)	358
P46196	MK01_BOVIN	Mitogen-activated protein kinase 1	MAPK1 ERK2, PRKM1	Bos taurus (Bovine)	360
P26696	MK01_XENLA	Mitogen-activated protein kinase 1	mapk1 mpk1	Xenopus laevis (African clawed frog)	361
E2R2N2	E2R2N2_CANLF	Mitogen-activated protein kinase	MAPK1	Canis lupus familiaris (Dog) (Canis familiaris)	360
Q8ND00	MISSL_HUMAN	MAPK-interacting and spindle-stabilizing protein	MAPK1IP1L C14orf32	Homo sapiens (Human)	245
Q1H834	Q1H834_HUMAN	Mitogen-activated protein kinase	MAPK1 HCG_32557	Homo sapiens (Human)	360
H2QLB4	H2QLB4_PANTR	Mitogen-activated protein kinase	MAPK1	Pan troglodytes (Chimpanzee)	360
F7ECR3	F7ECR3_MACHU	Mitogen-activated protein kinase	MAPK1	Macaca mulatta (Rhesus macaque)	360
Q9H706	GARE1_HUMAN	G2B2-associated and regulator of MAPK1	GAREM1 C18orf11, FAM58A, GAREM	Homo sapiens (Human)	876
Q5Z930	MPK12_ORY3J	Mitogen-activated protein kinase 12	MPK12 BWMK1, MAPK1, Os06g0708000, LOC_006949430, P0621005.40-1	Oryza sativa subsp. japonica (Rice)	580

MAPK1/ERK2 (*Mitogen-activated protein kinase 1/ Extracellular signal-regulated kinase 2*)

UniProtKB search results for 'prkcz'. The table shows various protein entries across different species, including humans, rats, mice, rabbits, and various other mammals and birds.

Entry	Entry name	Protein names	Gene names	Organism	Length
Q05513	KPCZ_HUMAN	Protein kinase C zeta type	PRKCZ PKCZ	Homo sapiens (Human)	592
P09217	KPCZ_RAT	Protein kinase C zeta type	Prkcz Pkcz	Rattus norvegicus (Rat)	592
Q02956	KPCZ_MOUSE	Protein kinase C zeta type	Prkcz Pkcz	Mus musculus (Mouse)	592
O19111	KPCZ_RABIT	Protein kinase C zeta type	PRKCZ	Oryctolagus cuniculus (Rabbit)	591
F6XMH6	F6XMH6_CANLF	Protein kinase C	PRKCZ	Canis lupus familiaris (Dog) (Canis familiaris)	591
A0A3Q1MSP9	A0A3Q1MSP9_BOVIN	Protein kinase C	PRKCZ	Bos taurus (Bovine)	596
E1BQN6	E1BQN6_CHICK	Protein kinase C	PRKCZ	Gallus gallus (Chicken)	592
I3LU84	I3LU84_PIG	Protein kinase C	PRKCZ	Sus scrofa (Pig)	629
F6ZK4	F6ZK4_MACHU	Protein kinase C	PRKCZ	Macaca mulatta (Rhesus macaque)	592
A0A3Q2HRQ4	A0A3Q2HRQ4_HORSE	Protein kinase C	PRKCZ	Equus caballus (Horse)	591
B0S477	B0S477_DANRE	Protein kinase C	prkcz	Danio rerio (Zebrafish) (Brachydanio rerio)	599
Q4JG04	Q4JG04_DANRE	Protein kinase C	prkcz	Danio rerio (Zebrafish) (Brachydanio rerio)	599
A0A5F5XLM2	A0A5F5XLM2_FELCA	Protein kinase C zeta	PRKCZ	Felis catus (Cat) (Felis silvestris catus)	649
G3R870	G3R870_GORGO	Protein kinase C	PRKCZ	Gorilla gorilla gorilla (Western)	592

PRKCZ/PKC2 (*Protein kinase C zeta type/Protein kinase C 2*)

uniportal.org/uniportal/?query=socs1&sort=score

UniProtKB 2021_04 results

Filter by:

Popular organisms: Human (31), Mouse (25), Rat (11), Bovine (6), Zebrafish (2)

Search terms: Filter "socs1" as: gene name (701), protein family (3), protein name (546)

Entry	Entry name	Protein names	Gene names	Organism	Length
Q15524	SOCS1_HUMAN	Suppressor of cytokine signaling 1	SOCS1, SS1L, TIP3	Homo sapiens (Human)	211
Q35716	SOCS1_MOUSE	Suppressor of cytokine signaling 1	Socs1, Cish1, Ssi1	Mus musculus (Mouse)	212
Q9QX78	SOCS1_RAT	Suppressor of cytokine signaling 1	Socs1	Rattus norvegicus (Rat)	212
Q6DEF9	Q6DEF9_DANRE	Socs1 protein	socs1a, SOCS1, socs1	Danio rerio (Zebrafish) (Brachydanio rerio)	201
E7CR04	E7CR04_PIG	Suppressor of cytokine signaling 1	SOCS1, socs1	Sus scrofa (Pig)	220
H2QAK6	H2QAK6_PANTR	Suppressor of cytokine signaling 1	SOCS1	Pan troglodytes (Chimpanzee)	211
G3RFJ3	G3RFJ3_GORGO	Suppressor of cytokine signaling 1	SOCS1	Gorilla gorilla gorilla (Western lowland gorilla)	211
F1PLC4	F1PLC4_CANLF	Suppressor of cytokine signaling 1	SOCS1	Canis lupus familiaris (Dog) (Canis familiaris)	197
F1MSN0	F1MSN0_BOVIN	Suppressor of cytokine signaling 1	SOCS1	Bos taurus (Bovine)	223
F7GGH3	F7GGH3_MACMU	Suppressor of cytokine signaling 1	SOCS1	Macaca mulatta (Rhesus macaque)	215
AA3375Q2	AA3375Q2_FELCA	Suppressor of cytokine signaling 1	SOCS1	Felis catus (Cat) (Felis silvestris catus)	203
F6SF14	F6SF14_HORSE	Suppressor of cytokine signaling 1	SOCS1	Equus caballus (Horse)	222
B6RCQ2	B6RCQ2_CHICK	Suppressor of cytokine signaling 1	SOCS1	Gallus gallus (Chicken)	207
V905U6	V905U6_SALSA	Suppressor of cytokine	SOCS1	Salmo salar (Atlantic salmon)	226

SOCS1 (Suppressor of cytokine signaling 1)

uniportal.org/uniportal/?query=irs1&sort=score

UniProtKB 2021_04 results

Filter by:

Popular organisms: Human (69), Mouse (50), Rat (36), Bovine (18), Fruit fly (2)

Search terms: Filter "irs1" as: gene name (830), protein name (525)

Entry	Entry name	Protein names	Gene names	Organism	Length
P35570	IRS1_RAT	Insulin receptor substrate 1	Irs1, Irs-1	Rattus norvegicus (Rat)	1,235
P35569	IRS1_MOUSE	Insulin receptor substrate 1	Irs1, Irs-1	Mus musculus (Mouse)	1,233
P35568	IRS1_HUMAN	Insulin receptor substrate 1	IRS1	Homo sapiens (Human)	1,242
Q35Y84	K2C71_HUMAN	Keratin, type II cytoskeletal 71	KRT71, K6IRS1, KB24, AKT6, IRS1	Homo sapiens (Human)	523
Q9R0H5	K2C71_MOUSE	Keratin, type II cytoskeletal 71	Krt71, K6rs1, Kb24, Krt2-6g, Krt5g	Mus musculus (Mouse)	524
Q8VDD9	PHIP_MOUSE	PH-interacting protein	Phip, Ndrp, Phip1, Wdr11	Mus musculus (Mouse)	1,821
Q8WWQ0	PHIP_HUMAN	PH-interacting protein	PHIP, DCAF14, WDR11	Homo sapiens (Human)	1,821
Q72320	K1C25_HUMAN	Keratin, type I cytoskeletal 25	KRT25, KRT25A	Homo sapiens (Human)	450
P09715	IRS1_HCMVA	Protein IRS1	IRS1	Human cytomegalovirus (strain AD169) (HHV-5) (Human herpesvirus 5)	846
Q65W04	IRS1_HCMVM	Protein IRS1	IRS1	Human cytomegalovirus (strain Marlin) (HHV-5) (Human herpesvirus 5)	847
Q91615	IRS1_XENLA	Insulin receptor substrate 1-A	Irs1-a	Xenopus laevis (African clawed frog)	885
Q28224	IRS1_CHLAE	Insulin receptor substrate 1	IRS1	Chlorocebus aethiops (Green monkey) (Cercopithecus)	1,251

IRS1 (Insulin receptor substrate 1)

UniProtKB 2021_04 results

Filter by:

Entry	Entry name	Protein names	Gene names	Organism	Length
Q9PVZ4	INSR_KENLA	Insulin receptor	insr	Xenopus laevis (African clawed frog)	1,362
P06213	INSR_HUMAN	Insulin receptor	INSR	Homo sapiens (Human)	1,382
P15208	INSR_MOUSE	Insulin receptor	Insr	Mus musculus (Mouse)	1,372
P15127	INSR_RAT	Insulin receptor	Insr	Rattus norvegicus (Rat)	1,383
T2CB11	T2CB11_RAT	Tyrosine-protein kinase receptor	Insr rCG_58966	Rattus norvegicus (Rat)	1,384
J9NY09	J9NY09_CANLF	Tyrosine-protein kinase receptor	INSR	Canis lupus familiaris (Dog) (Canis familiaris)	1,406
A0A212UE37	A0A212UE37_FELCA	Tyrosine-protein kinase receptor	INSR	Felis catus (Cat) (Felis silvestris catus)	1,381
A0A213RFV3	A0A213RFV3_PANTR	Tyrosine-protein kinase receptor	INSR	Pan troglodytes (Chimpanzee)	1,408
F1MV64	F1MV64_BOVIN	Tyrosine-protein kinase receptor	INSR	Bos taurus (Bovine)	1,387
F6RLJ3	F6RLJ3_HORSE	Tyrosine-protein kinase receptor	INSR	Equus caballus (Horse)	1,382
F1SCL0	F1SCL0_PIG	Tyrosine-protein kinase receptor	INSR	Sus scrofa (Pig)	1,382
Q28516	INSR_MACMU	Insulin receptor	INSR	Macaca mulatta (Rhesus macaque)	210
E2RPM8	E2RPM8_CANLF	Tyrosine-protein kinase receptor	INSR	Canis lupus familiaris (Dog) (Canis familiaris)	1,394
H0YQ96	H0YQ96_TAEGU	Tyrosine-protein kinase receptor	INSR	Taeniopygia guttata (Zebra finch)	1,323

INSR (*Insulin receptor*)

UniProtKB 2021_04 results

Filter by:

Entry	Entry name	Protein names	Gene names	Organism	Length
P42336	PK3CA_HUMAN	Phosphatidylinositol 4,5-bisphosphatase	PIK3CA	Homo sapiens (Human)	1,068
P42337	PK3CA_MOUSE	Phosphatidylinositol 4,5-bisphosphatase	Pik3ca	Mus musculus (Mouse)	1,068
P32871	PK3CA_BOVIN	Phosphatidylinositol 4,5-bisphosphatase	PIK3CA	Bos taurus (Bovine)	1,068
A0A0Q2K344	PK3CA_RAT	Phosphatidylinositol 4,5-bisphosphatase	Pik3ca	Rattus norvegicus (Rat)	1,068
A0A21377A8	A0A21377A8_PANTR	Phosphatidylinositol 4,5-bisphosphatase	PIK3CA	Pan troglodytes (Chimpanzee)	1,034
F1Q3M8	F1Q3M8_CANLF	Phosphatidylinositol 4,5-bisphosphatase	PIK3CA	Canis lupus familiaris (Dog) (Canis familiaris)	978
F6VF18	F6VF18_HORSE	Phosphatidylinositol 4,5-bisphosphatase	PIK3CA	Equus caballus (Horse)	1,068
H9PVL5	H9PVL5_MACMU	Phosphatidylinositol 4,5-bisphosphatase	PIK3CA	Macaca mulatta (Rhesus macaque)	1,068
A0A212UYM7	A0A212UYM7_FELCA	Phosphatidylinositol 4,5-bisphosphatase	PIK3CA	Felis catus (Cat) (Felis silvestris catus)	1,068
A0A5K1UB41	A0A5K1UB41_PIG	Phosphatidylinositol 4,5-bisphosphatase	PIK3CA	Sus scrofa (Pig)	1,068
G1K0E7	G1K0E7_ANOCA	Phosphatidylinositol 4,5-bisphosphatase	PIK3CA	Anolis carolinensis (Green anole) (American chameleon)	1,068
F6SW23	F6SW23_CHICK	Phosphatidylinositol 4,5-bisphosphatase	PIK3CA	Gallus gallus (Chicken)	1,068
F7DUD6	F7DUD6_ORNAN	Phosphatidylinositol 4,5-bisphosphatase	PIK3CA	Ornithorhynchus anatinus (Duckbill platypus)	1,068
G3R156	G3R156_GORGO	Phosphatidylinositol 4,5-bisphosphatase	PIK3CA	Gorilla gorilla gorilla (Western)	1,068

PIK3CA/PI3K (*Phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit alpha isoform/ Phosphatidylinositol 4,5-bisphosphate 3-kinase*)

UniProtKB 2021_04 results

Filter by: Reviewed (237), Unreviewed (1,153)

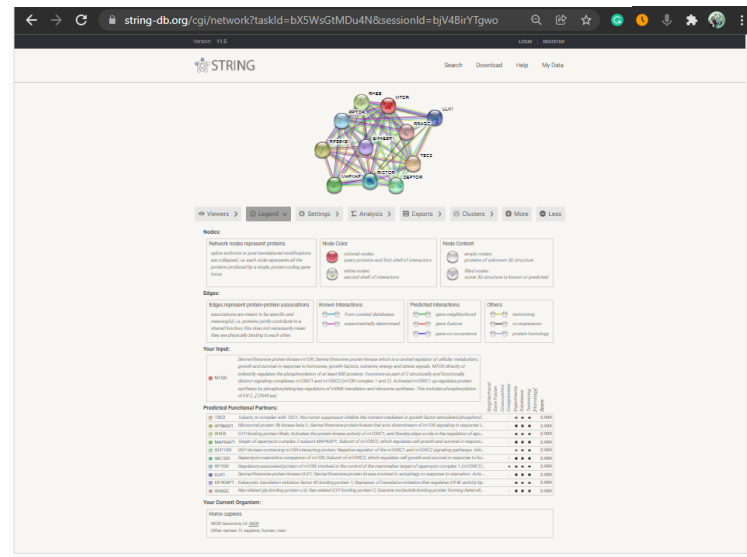
Popular organisms: Human (112), Mouse (54), Rat (35), Bovine (18), Zebrafish (3)

Search terms: Filter "slc2a4" as: gene name (783), protein name (522)

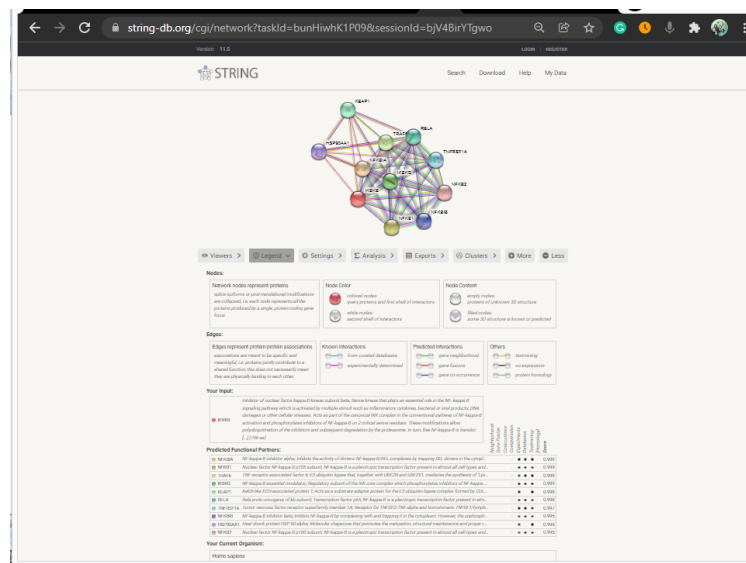
Entry	Entry name	Protein names	Gene names	Organism	Length
Q9NR83	S2A4R_HUMAN	SLC2A4 regulator	SLC2A4ARG HD851	Homo sapiens (Human)	387
P14672	GLUT4_HUMAN	Solute carrier family 2, facilitated...	SLC2A4 GLUT4	Homo sapiens (Human)	509
P14142	GLUT4_MOUSE	Solute carrier family 2, facilitated...	Slc2a4 Glut4	Mus musculus (Mouse)	509
Q27994	GLUT4_BOVIN	Solute carrier family 2, facilitated...	SLC2A4 GLUT4	Bos taurus (Bovine)	509
P19257	GLUT4_RAT	Solute carrier family 2, facilitated...	Slc2a4 Glut4	Rattus norvegicus (Rat)	509
Q9XT10	GLUT4_PIG	Solute carrier family 2, facilitated...	SLC2A4 GLUT4	Sus scrofa (Pig)	174
Q9XST2	GLUT4_CANLF	Solute carrier family 2, facilitated...	SLC2A4 GLUT4, B146	Canis lupus familiaris (Dog) (Canis familiaris)	162
Q8MJ15	Q8MJ15_HORSE	Glucose transporter type 4, insulin...	SLC2A4 GLUT4	Equus caballus (Horse)	509
F1Q292	F1Q292_CANLF	Glucose transporter type 4, insulin...	SLC2A4	Canis lupus familiaris (Dog) (Canis familiaris)	510
M3VZM9	M3VZM9_FELCA	Glucose transporter type 4, insulin...	SLC2A4	Felis catus (Cat) (Felis silvestris catus)	585
F1RF44	F1RF44_PIG	Glucose transporter type 4, insulin...	SLC2A4	Sus scrofa (Pig)	509
A0A5F4DA15	A0A5F4DA15_CANLF	Glucose transporter type 4, insulin...	SLC2A4	Canis lupus familiaris (Dog) (Canis familiaris)	553
F7F328	F7F328_MACHU	Glucose transporter type 4, insulin...	SLC2A4	Macaca mulatta (Rhesus macaque)	541
A0A4W2GV70	A0A4W2GV70_BOBOX	Glucose transporter	SLC2A4	Bos indicus x Bos taurus (Hybrid)	569

SLC2A4/GLUT4 (*Solute carrier family 2, facilitated glucose transporter member 4/ Glucose transporter type 4*)

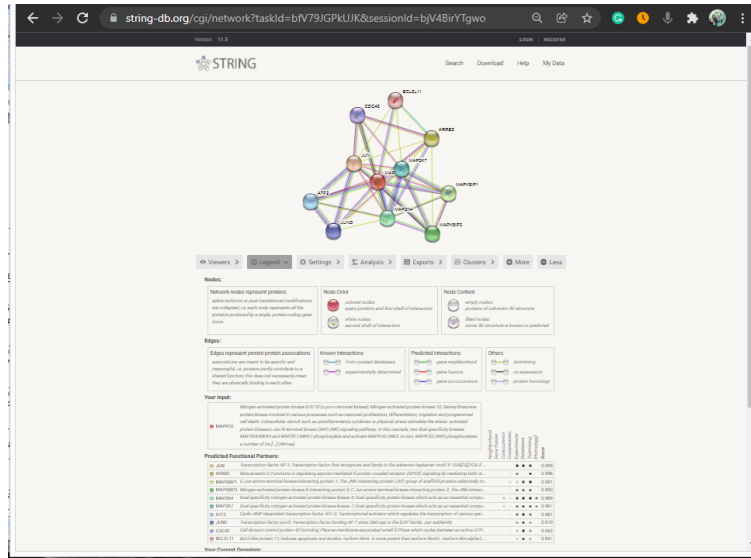
Lampiran 4. Interaksi protein-protein dari STRING



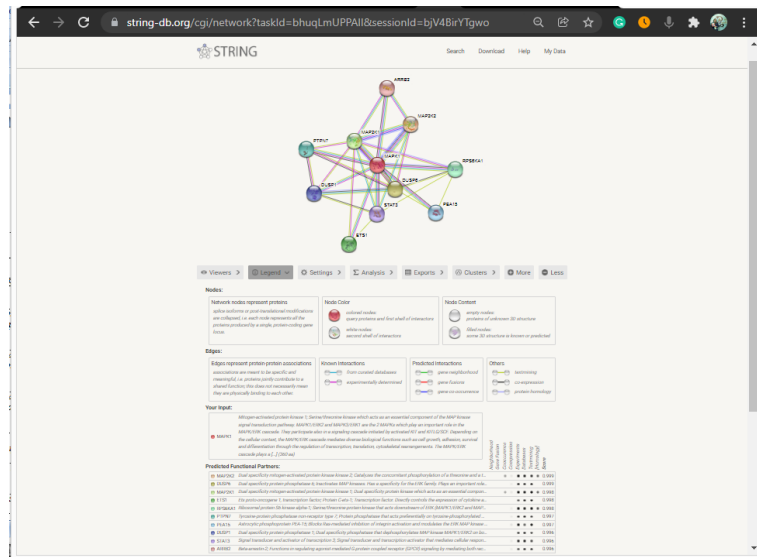
mTOR (*Serine/threonine-protein kinase mTOR*)



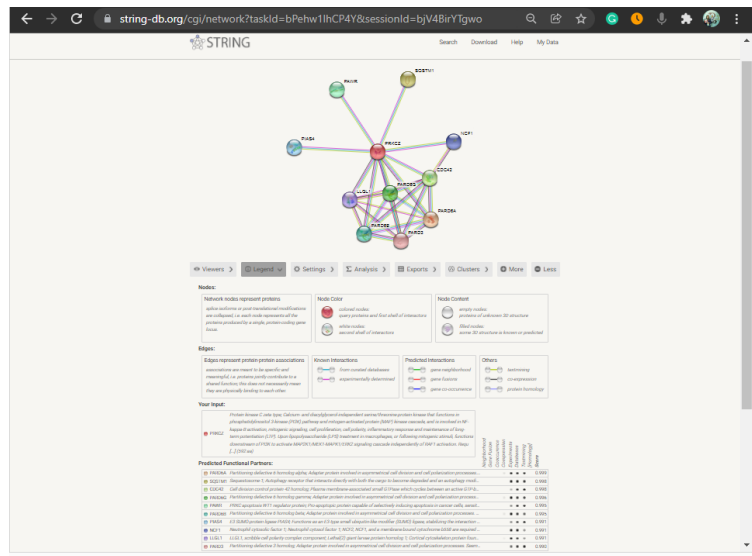
IKBKB/IKKB (*Inhibitor of nuclear factor kappa-B kinase subunit beta/ I-kappa-B kinase beta*)



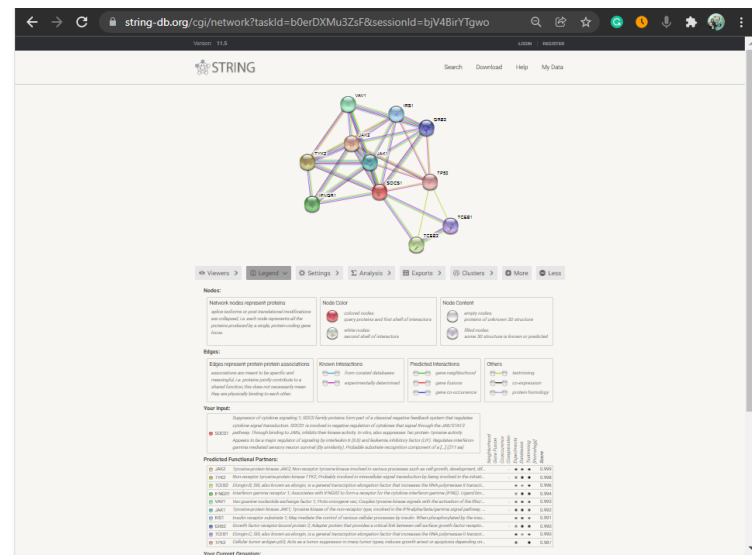
MAPK10/JNK3 (*Mitogen-activated protein kinase 10/ c-Jun N-terminal kinase 3*)



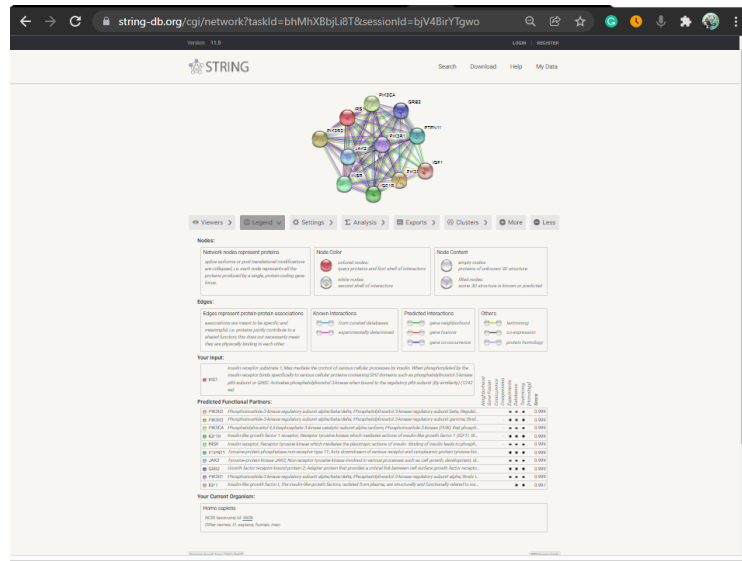
MAPK1/ERK2 (*Mitogen-activated protein kinase 1/ Extracellular signal-regulated kinase 2*)



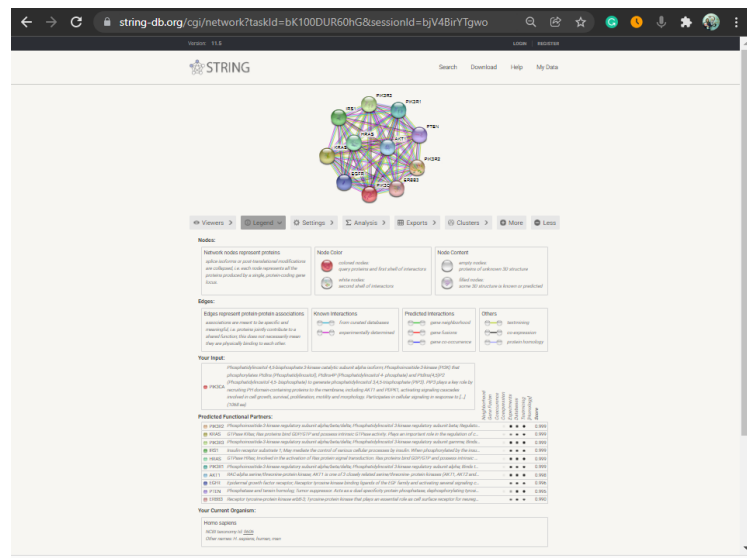
PRKCZ/PKC2 (*Protein kinase C zeta type/Protein kinase C 2*)



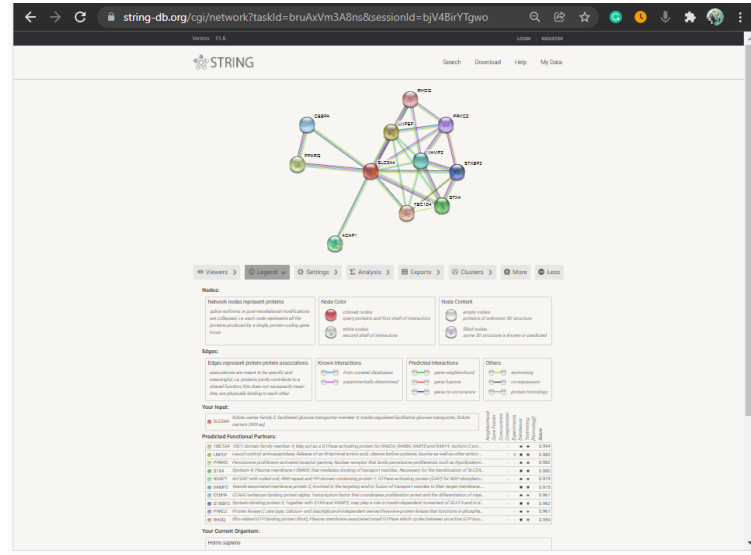
SOCS1 (*Suppressor of cytokine signaling 1*)



IRS1 (*Insulin receptor substrate 1*)



PIK3CA/PI3K (*Phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit alpha isoform/ Phosphatidylinositol 4,5-bisphosphate 3-kinase*)



SLC2A4/GLUT4 (*Solute carrier family 2, facilitated glucose transporter member 4/ Glucose transporter type 4*)

Lampiran 5. Visualisasi profil *network pharmacology* dari software Cytoscape v. 3.8.2

