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PathwayScanner

by MicroMolecules

GENE EXPRESSION ARRAY

Pathway scanner bir gen ekspresyon array kitidir. Uzun çalışmalar sonu elde ettiğiniz;

- ❖ Bitki ekstraleriniz,
- ❖ Doğal Ürün ekstraleriniz,
- ❖ Nanopartikülleriniz,
- ❖ Organik, anorganik kimya molekülleriniz,
- ❖ Doğal ürün derivatflerinizin

Antikanser, antiproliferatif, metastatik ve apoptotik etkilerini, dünyadaki en güncel yöntemleri kullanarak yüksek doğrulukta analiz edebilirsiniz.

PathwayScanner Kit içeriğinde;

- ❖ Kontrol ve deneme materyalinizden toplam RNA izolasyonu yapabileceğiniz malzemeler
- ❖ cDNA sentezleyebileceğiniz solüsyon ve enzimler
- ❖ Real Time PCR ile analiz yapılmasına uygun 96 well pleylere yerleştirilen, valide edilmiş primerler bulunur.

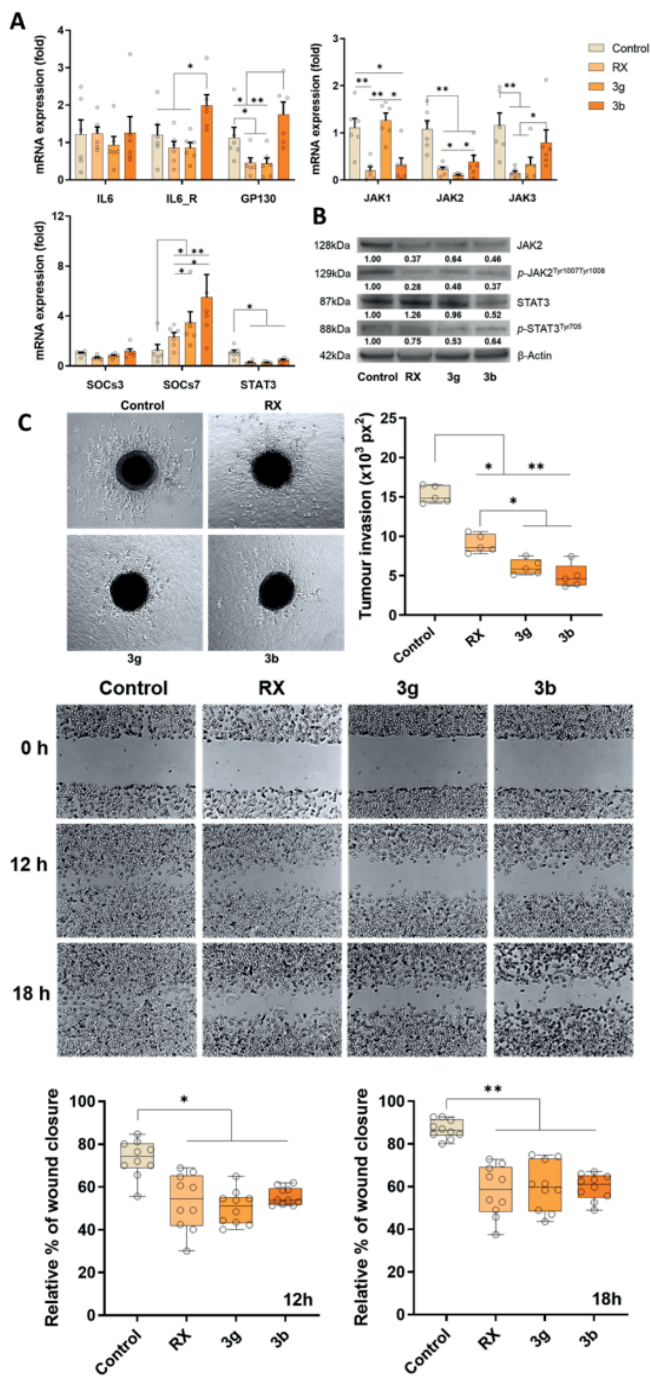
Hizmetlerimiz

- ❖ Kitler en geç 3 iş günü içinde kuru buz ile teslim edilir. 100% yerli olan PathwayScanner ile yurtdışından aylarca kit bekleme sorununu ortadan kaldırıyoruz.
- ❖ Pathway scanner ile ilgili tüm gen ekspresyon çalışmaları firmamızın kapsamlı genetik laboratuvarında tamamen ücretsiz olarak yapılır.
- ❖ Verilerin istatistiksel analizleri yapılır.
- ❖ Tüm tablo ve grafiklerin sonuçları ham verilerle birlikte rapor halinde sizlere teslim edilir.
- ❖ Çalışmanıza özel CUSTOM DESIGN kitlelerimiz mevcuttur.

PathwayScanner – Human Anti-Cancer Effect Signalling Pathway

16 örnek için 48 spesifik gen ifadesini tanımlamak için yeterli materyali sağlar

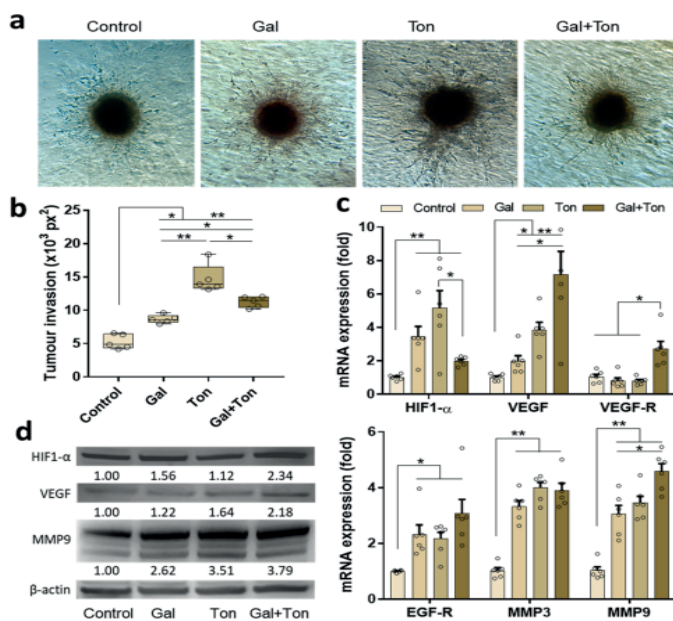
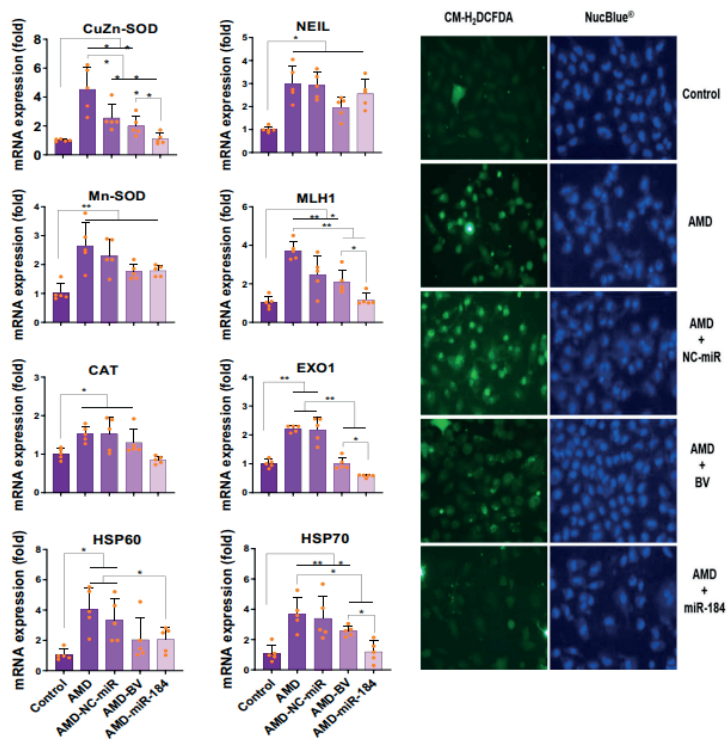
Plate No	Gene ID	EMBL Gene Bank	Gene name
Hypoxia related angiogenesis signals			
A01	HIF-1 α	NM 181054	Hypoxia-inducible factors -1 α
A02	VEGF	NM 001171627	Vascular endothelial growth factor
A03	VEGF-R2	NM 002253.4	Vascular endothelial growth factor receptor 2
A04	MMP3	NM 002422.5	Matrix metalloproteinase 3
A05	MMP9	NM 004994.3	Matrix metalloproteinase 9
TGF-β/SMADs signalling			
A06	TGF- β	NM 152787	Transforming Growth Factor Beta 1
A07	Smad2	NM 005901	SMAD Family Member 2
A08	Smad3	NM 001145102	SMAD Family Member 3
A09	Smad4	NM 001407041	SMAD Family Member 4
EMT signalling			
A10	Twist	NM_000474.4	Twist Family BHLH Transcription Factor 1
A11	Snail	NM 005985.4	Snail Family Transcriptional Repressor 1
A12	Vimentin	NM 003380.5	Vimentin
B01	E-cadherin	NM 004360.5	E-cadherin
B02	N-cadherin	NM 001792.5	N-cadherin
IL6 receptor JAK/STAT signals			
B03	IL-6	NM 173672	Interleukin 6
B04	IL-6R	NM 181359	Interleukin 6 receptor
B05	JAK2	NM 004972	Janus Kinase 2
B06	STAT3	NM 139276	Signal Transducer And Activator Of Transcription 3
B07	SOCs3	NM 003955	Suppressor Of Cytokine Signalling-3
B08	SOCs7	NM 014598	Suppressor Of Cytokine Signalling-7
B09	PI3K	NM 005026.5	Phosphatidylinositol-4,5-Bisphosphate 3-Kinase
B10	AKT	NM 001243028	AKT Serine/Threonine Kinase
B11	mTOR	NM 004958.4	Mechanistic Target Of Rapamycin Kinase
NF-KB signals			
B12	NF-KB	NM 001382627.1	Nuclear Factor Kappa B Subunit
C01	IKB- α	NM 020529.3	NFKB Inhibitor Alpha
ER stress signals			
C02	eIF2- α	NM 001013703	Eukaryotic translation initiation factor 2 alpha
C03	ATF4	NM 182810	Activating transcription factor 4
C04	PERK	NM 004836	Pancreatic EIF2-Alpha Kinase
C05	IRE1 α	NM 001433	Endoplasmic reticulum to nucleus signaling 1
C06	EDEM	NM 014674	ER degradation enhancer, mannosidase alpha-like 1
C07	CHOP	NM 001195055	DNA damage inducible transcript 3
C08	XBP1	NM 001079539	X-box binding protein 1
C09	sXBP1		spliced (s) X-box binding protein 1
Apoptosis signals			
C10	P21Chip1	NM 078467	Cyclin dependent kinase inhibitor 1A
C11	P27Kip1	NC 000012.12	Cyclin-Dependent Kinase Inhibitor 1B
C12	P53	NM 001126118	Tumor suppressor P53
D01	BCL-2	NM 000657	B-cell CLL/lymphoma 2
D02	BAX	NM 138763	BCL2-associated X protein
D03	CYT-c	NM 018947	Cytochrome C
D04	CASP3	NM 004346	Caspase 3, Apoptosis-Related Cysteine Peptidase
D05	CASP8	NM 001400642.1	Caspase 8, Apoptosis-Related Cysteine Peptidase
D06	CASP9	NM 032996.3	Caspase 9, Apoptosis-Related Cysteine Peptidase
D07	TNF- α	NM 021137	Tumor Necrosis Factor alpha
D08	GAPDH	NM 014364	Glyceraldehyde-3-Phosphate Dehydrogenase
D09	β -ACTIN	NM 001101	β -Actin; beta cytoskeletal actin
D10	TRAIL	NM 003810.4	TNF-Related Apoptosis Inducing Ligand TRAIL
D11	DR4	NM 019613	Death Receptor 4
D12	DR5	NM 030581	Death Receptor 5



PathwayScanner – Human Oxidative Stress/Antioxidant Effect Signalling

16 örnek için 48 spesifik gen ifadesini tanımlamak için yeterli materyal sağlar.

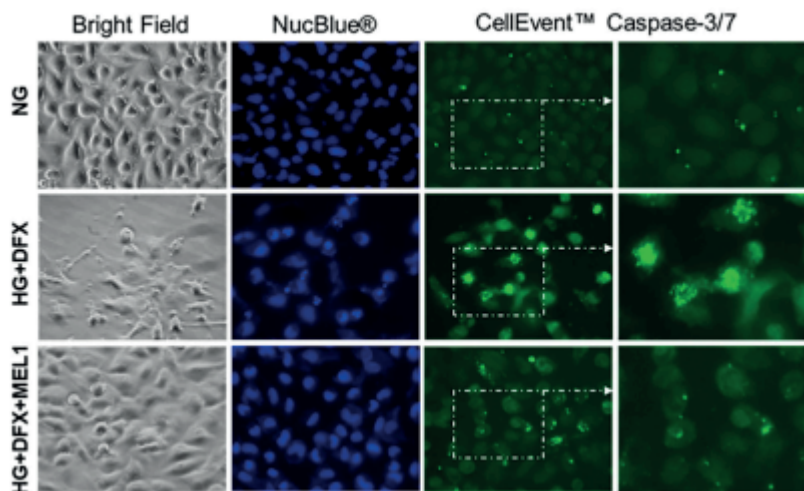
Plate No	Gene ID	EMBL Gene Bank	Gene name
Antioxidant defence signals			
A01	CuZn-SOD	NM_000454	Superoxide dismutase 1
A02	Mn-SOD	NM_000636	Superoxide dismutase 2, mitochondrial
A03	CAT	NM_001752	Catalase
A04	GSS	NM_000178.4	Glutathione synthetase
A05	GST	NM_000561.4	Glutathione s transferase
DNA repair signals			
A06	MSH2	NM_001258281.1	DNA mismatch repair protein Msh2
A07	SMUG1	NM_001243791	Single-strand-selective monofunctional uracil-DNA glycosylase 1
A08	XRCC1	NM_006297.3	X-ray repair complementing defective repair 1
A09	XRCC3	NM_001100118	X-ray repair complementing defective repair 3
A10	RAD18	NM_020165.4	E3 Ubiquitin-Protein Ligase RAD18
A11	EXO1	NM_003686	Exonuclease 1 (EXO1), transcript variant 3
A12	NEIL2	NM_001349442.2	Nei Like DNA Glycosylase 1
Heat shock protein response/Molecular chaperones signals			
B01	HSP27	NM_001541	Heat shock 27 kDa protein 2
B02	HSP60	NM_002156	Heat shock 60 kDa protein 1;mitochondrial protein
B03	HSP70/72	NM_002155	Heat shock 70/72 kDa protein
B04	HSP90	NM_005348.4	Heat shock 90 kDa protein
PI3K/AKT, MAPK/ERK1/ERK2, NF-KB signals			
B05	PI3K	NM_005026.5	Phosphatidylinositol-4,5-Bisphosphate 3-Kinase
B06	AKT	NM_001243028	AKT Serine/Threonine Kinase
B07	mTOR	NM_004958.4	Mechanistic Target Of Rapamycin Kinase
B08	NF-KB	NM_001382627.1	Nuclear Factor Kappa B Subunit
B09	IKB-α	NM_020529.3	NFKB Inhibitor Alpha
B10	MAPK4	NM_002747	Mitogen-activated protein kinase 4
B11	MAPK12	NM_002969	Mitogen-activated protein kinase 12
Apoptosis signals			
B12	SURVIVIN	NM_001168.3	Survivin
C01	LIVIN	NM_139317.3	Livin
C02	BCL-XL	NM_001317920.2	B-cell lymphoma-XL
C03	BCL-2	NM_000657	B-cell CLL/lymphoma 2
C04	P21Chip1	NM_078467	Cyclin dependent kinase inhibitor 1A
C05	P27Kip1	NC_000012.12	Cyclin-Dependent Kinase Inhibitor 1B
C06	P53	NM_001126118	Tumor suppressor P53
C07	GAPDH	NM_014364	Glyceraldehyde-3-Phosphate Dehydrogenase
C08	β-ACTIN	NM_001101	β-Actin; beta cytoskeletal actin
C09	PTEN	NM_001304717.5	Phosphatase And Tensin Homolog
C10	SMAC/DIABLO	NM_001278303.1	Smac/ diablo IAP-binding mitochondrial protein
C11	PUMA	NM_001127241.3	p53 upregulated modulator of apoptosis
C12	NOXA	BC032663	Phorbol-12-myristate-13-acetate-induced protein 1
D01	BAX	NM_138763	BCL2-associated X protein
D02	CYT-c	NM_018947	Cytochrome C
D03	APAF1	NM_181861.2	Apoptotic peptidase activating factor 1
D04	CASP3	NM_004346	Caspase 3, Apoptosis-Related Cysteine Peptidase
D05	CASP8	NM_001400642.1	Caspase 8, Apoptosis-Related Cysteine Peptidase
D06	CASP9	NM_032996.3	Caspase 9, Apoptosis-Related Cysteine Peptidase
D07	TNF-α	NM_021137	Tumor Necrosis Factor alpha
D08	FAS	XM_006717819.4	Fas Cell Surface Death Receptor
D09	FASL	NM_020165.4	Fas Ligand
D10	TRAIL	NM_003810.4	TNF-Related Apoptosis Inducing Ligand TRAIL
D11	DR4	NM_019613	Death Receptor 4
D12	DR5	NM_030581	Death Receptor 5



PathwayScanner – Human Apoptosis Signalling Pathway

16 örnek için 24 spesifik gen ifadesini tanımlamak için yeterli materyal sağlar.

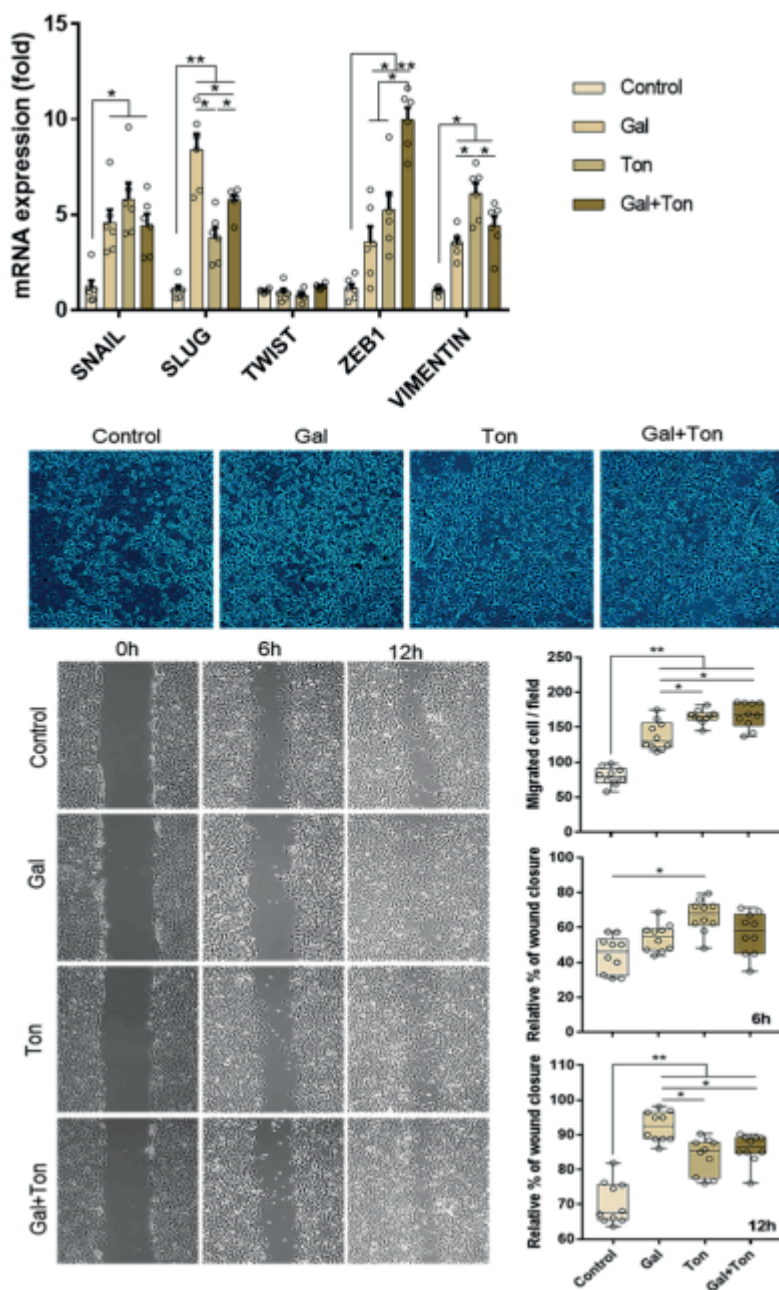
Plate No	Gene ID	EMBL Gene Bank	Gene name
A01	SURVIVIN	NM_001168.3	Survivin
A02	BCL-XL	NM_001317920.2	B-cell lymphoma-XL
A03	BCL-2	NM_000657	B-cell CLL/lymphoma 2
A04	P21Chip1	NM_078467	Cyclin dependent kinase inhibitor 1A
A05	P27Kip1	NC_000012.12	Cyclin-Dependent Kinase Inhibitor 1B
A06	P53	NM_001126118	Tumor suppressor P53
A07	GAPDH	NM_014364	Glyceraldehyde-3-Phosphate Dehydrogenase
A08	β -ACTIN	NM_001101	β -Actin; beta cytoskeletal actin
A09	PTEN	NM_001304717.5	Phosphatase And Tensin Homolog
A10	SMAC/DIABLO	NM_001278303.1	Smac/ diablo IAP-binding mitochondrial protein
A11	PUMA	NM_001127241.3	p53 upregulated modulator of apoptosis
A12	NOXA	BC032663	Phorbol-12-myristate-13-acetate-induced protein 1
A01	BAX	NM_138763	BCL2-associated X protein
A02	CYT-c	NM_018947	Cytochrome C
A03	APAF1	NM_181861.2	Apoptotic peptidase activating factor 1
A04	CASP3	NM_004346	Caspase 3, Apoptosis-Related Cysteine Peptidase
A05	CASP8	NM_001400642.1	Caspase 8, Apoptosis-Related Cysteine Peptidase
A06	CASP9	NM_032996.3	Caspase 9, Apoptosis-Related Cysteine Peptidase
A07	TNF- α	NM_021137	Tumor Necrosis Factor alpha
A08	FAS	XM_006717819.4	Fas Cell Surface Death Receptor
A09	FASL	NM_020165.4	Fas Ligand
A10	TRAIL	NM_003810.4	TNF-Related Apoptosis Inducing Ligand TRAIL
A11	DR4	NM_019613	Death Receptor 4
A12	DR5	NM_030581	Death Receptor 5



PathwayScanner-Human Cancer Metastasis: Hypoxia, Angiogenesis, Emt Signalling

16 örnek için 48 spesifik gen ifadesini tanımlamak için yeterli materyal sağlar.

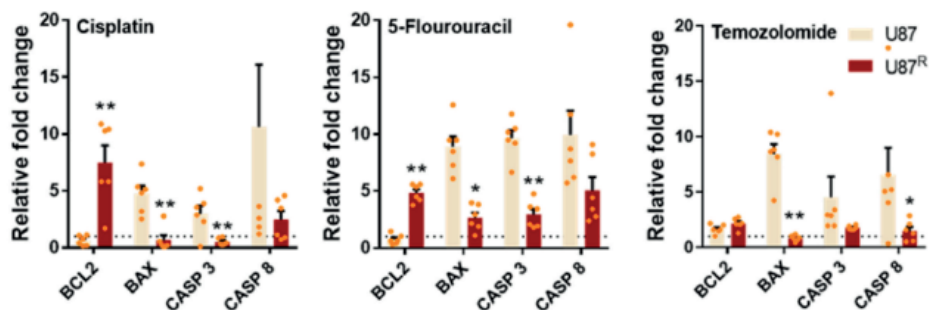
Plate No	Gene ID	EMBL Gene Bank	Gene name
Hypoxia related angiogenesis signals			
A01	HIF-1 α	NM 181054	Hypoxia-inducible factors -1 α
A02	HIF-1 β	NM 178427.3	Hypoxia-inducible factors -1 β
A03	VEGFA	NM 001171627	Vascular endothelial growth factor A
A04	VEGFC	NM 005429	Vascular endothelial growth factor C
A05	VEGF-R2	NM 002253.4	Vascular endothelial growth factor receptor 2
A06	EGFR	NM 005228.5	Epidermal growth factor receptor
A07	HRAS	NM 005343.4	Proto-oncogene-GTPase HRas
A08	KRAS	NM 001369787.1	Proto-oncogene-GTPase KRas
A09	RAF	NM 001378474.1	Serine/threonine-protein kinase B-raf
A10	MAPK12	NM_002969	Mitogen-activated protein kinase 12
A11	ERK1	NM 001109891.2	Extracellular signal-regulated kinases1 (Syn.MAPK3)
A12	ERK2	NM 002745.5	Extracellular signal-regulated kinases2 (Syn.MAPK1)
B01	FGFR1	NM 023106	Fibroblast growth factor receptor 1
B02	FGFR4	NM 002011	Fibroblast growth factor receptor 4
Plate No Gene ID EMBL Gene Bank Gene name			
B03	IGF1-R	NM 000875.5	Insulin-like growth factor 1 receptor
B04	MMP2	NM 001302508.1	Matrix metalloproteinase 2
B05	MMP3	NM 002422.5	Matrix metalloproteinase 3
B06	MMP9	NM 004994.3	Matrix metalloproteinase 9
B07	MMP12	NM 002426.6	Matrix metalloproteinase 12
B08	PI3K	NM 005026.5	Phosphatidylinositol-4,5-Bisphosphate 3-Kinase
B09	AKT	NM 001243028	AKT Serine/Threonine Kinase
TGF-β/SMADs signalling			
B10	TGF- β	NM 152787	Transforming Growth Factor Beta 1
B11	TGF- β R2	NM 001407127.1	Transforming Growth Factor Beta Receptor 2
B12	Smad1	NM 001354812.1	SMAD Family Member 1
C01	Smad2	NM 005901	SMAD Family Member 2
C02	Smad3	NM 001145102	SMAD Family Member 3
C03	Smad4	NM 001407041	SMAD Family Member 4
C04	Smad5	NM 005903.7	SMAD Family Member 5
C05	GAPDH	NM 014364	Glyceraldehyde-3-Phosphate Dehydrogenase
C06	β -ACTIN	NM 001101	β -Actin; beta cytoskeletal actin
The epithelial-mesenchymal transition (EMT) signalling			
C07	Ski	NM 003036.4	SKI-proto-oncogene
C08	Snon	NM 005414.5	SKI like proto-oncogene
C09	S100	NM 006271.2	S100 calcium binding protein A1
C10	α SMA	NM 001100.4	Actin, alpha skeletal muscle
C11	Slug	NM 003068.5	Zinc finger protein SNAI2
C12	Snail	NM 005985.4	Zinc finger protein SNAI1
D01	Twist	NM 000474.4	Twist family bHLH transcription factor 1
D02	Vimentin	NM 003380.5	Vimentin
D03	E-cadherin	NM 004360.5	Cadherin-1
D04	N-cadherin	NM 001792.5	Cadherin-2
D05	MSX2	NM 001363626.2	Homeobox protein MSX-2
D06	ZEB1	NM 001323643.2	Zinc finger E-box-binding homeobox 1
D07	ZEB2	NM 001171653.2	Zinc finger E-box-binding homeobox 2
D08	ZO1(Tjp1)	NM 001301025.3	Tight junction protein ZO-1
D09	Ocludin	NM 002538.4	Ocludin
D10	CLDN4	NM 001305.5	Claudin-4
D11	CLDN9	NM 020982.4	Claudin-9
D12	CLDN17	NM 012131.3	Claudin-17

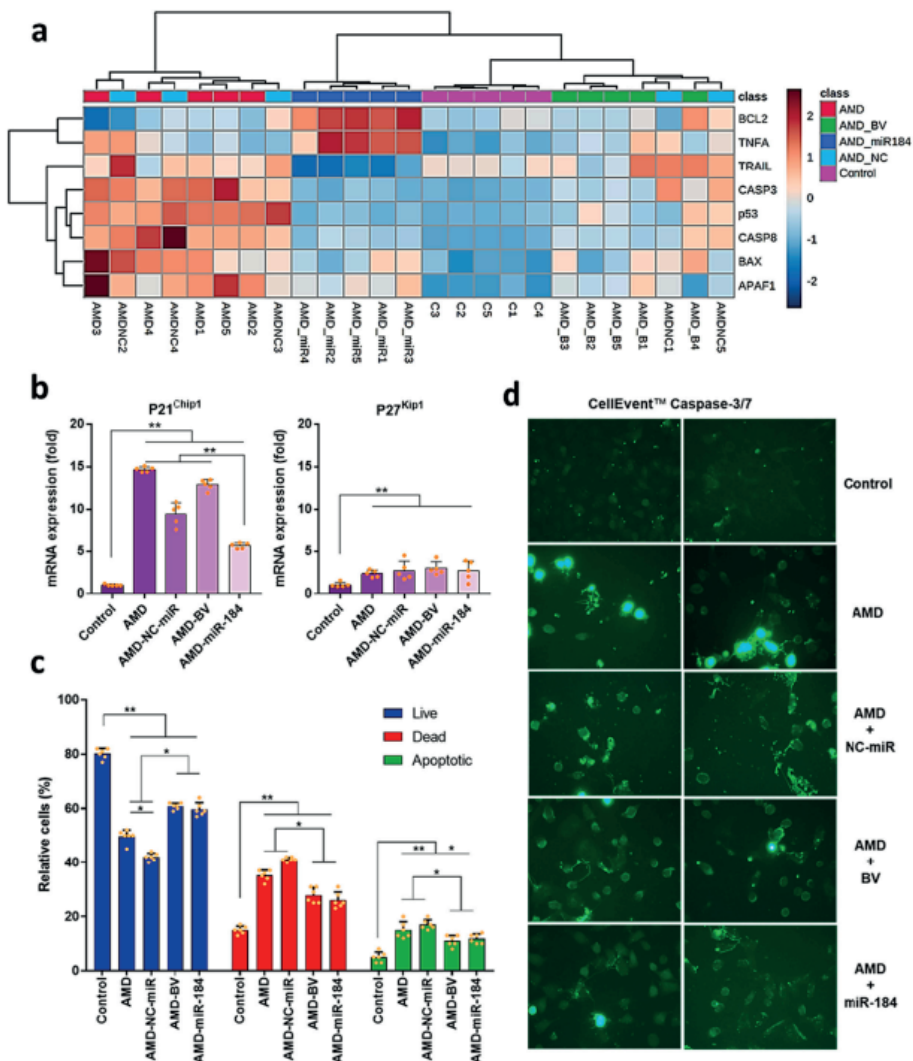


PathwayScanner –Human Mitochondrial Dynamics/ Dysfunction Signalling

16 örnek için 24 spesifik gen ifadesini tanımlamak için yeterli materyal sağlar.

Plate No	Gene ID	EMBL Gene Bank	Gene name
Mitochondrial fission			
A01	Drp1	NM_012062.5	Dynamic-related peptide-1
A02	hFis1	NM_016068.3	Human fission protein-1
A03	Mff	NM_001277061.2	Mitochondrial fission factor
A04	MIEF2	NM_139162.4	Mitochondrial dynamics proteins (MID49/51)
Mitochondrial fusion			
A05	MFN1	NM_033540.3	Mitofusins 1
A06	MFN2	NM_014874.4	Mitofusins 1
A07	OPA1	NM_015560.3	Optic Atrophy 1
A08	TFAM	NM_003201.3	Mitochondrial transcription factor
Mitochondrial biogenesis and mitophagy			
A09	PINK1	NM_032409.3	PTEN-induced kinase 1
A10	BNip3	NM_004052.4	Bcl2 / adenovirus E1B19kD-interacting protein 3
A11	NIX	NM_001330491.2	Nip3-like protein X
A12	GAPDH	NM_014364	Glyceraldehyde-3-Phosphate Dehydrogenase
B01	PGC1- α	NM_001354827.2	Proliferator- activated receptor coactivator -1Alpha
B02	PPAR γ	NM_005037.7	Peroxisome Proliferative Activated Receptor, Gamma
B03	NRF1	NM_005011.5	Nuclear respiratory factor-1
B04	NRF2- α	NM_001145413.3	Nuclear respiratory factor-2Alpha
Mitochondrial apoptosis			
B05	BCL-XL	NM_001317920.2	B-cell lymphoma-XL
B06	BCL-2	NM_000657	B-cell CLL/lymphoma 2
B07	BAX	NM_138763	BCL2-associated X protein
B08	β -ACTIN	NM_001101	β -Actin; beta cytoskeletal actin
B09	CYT-c	NM_018947	Cytochrome C
B10	APAF1	NM_181861.2	Apoptotic peptidase activating factor 1
B11	CASP3	NM_004346	Caspase 3, Apoptosis-Related Cysteine Peptidase
B12	CASP8	NM_001400642.1	Caspase 8, Apoptosis-Related Cysteine Peptidase

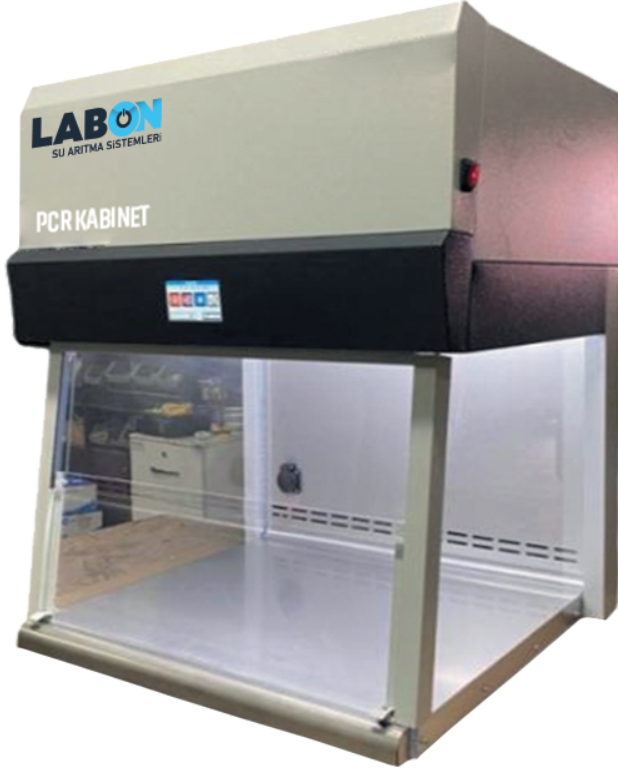






BİYOGÜVENLİK KABİNLERİ

- Laminar Flow - Class II Tip A - Class II Tip B
- 90-120-180 Cm ve Özel Ölçüde



PCR ÇALIŞMA KABİNİ

- 69 Cm ve Özel Ölçüde



Biokim Teknik Sistemler Ltd.Şti
Mira Tower Tatlı Su Mah. Şenol Güneş Bulvarı
Şerifali Bölgesi No:2 K:7/38
Ümraniye /İSTANBUL



0216 455 8464



info@**biokim**.com.tr



Selçuklu Mahallesi Pınar Sok. No:3
Dadaşkent Aziziye / ERZURUM



(0442) 234 10 80 - 82



(0442) 234 10 81



info@**biokim**.com.tr

KİTLERİMİZİN MARKA TESCİLİ BULUNMAKTADIR.