
IFN γ binding to extracellular matrix prevents fatal systemic toxicity

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FASTA identifiers of vertebrate species for sequence analysis

Species	Common name	Taxonomic identifier (NCBI)	IFNg FASTA identifier	Taxon
Mus musculus	mouse	10090	>sp P01580 IFNG_MOUSE Interferon gamma OS=Mus musculus OX=10090 GN=Ifng PE=1 SV=1	
Rattus norvegicus	rat	10116	>sp P01581 IFNG_RAT Interferon gamma OS=Rattus norvegicus OX=10116 GN=Ifng PE=2 SV=1	
Mesocricetus auratus	golden hamster	10036	>sp O35497 IFNG_MESAU Interferon gamma OS=Mesocricetus auratus OX=10036 GN=IFNG PE=2 SV=1	
Ailuropoda melanoleuca	giant panda	9646	>tr C8CBV8 C8CBV8_AILME Interferon gamma OS=Ailuropoda melanoleuca OX=9646 GN=IFNG PE=2 SV=1	
Equus caballus	horse	9796	>sp P42160 IFNG_HORSE Interferon gamma OS=Equus caballus OX=9796 GN=IFNG PE=2 SV=1	
Camelus bactrianus	camel	9837	>sp Q865W6 IFNG_CAMBA Interferon gamma OS=Camelus bactrianus OX=9837 GN=IFNG PE=2 SV=1	
Vulpes vulpes	red fox	9627	>sp Q25BC0 IFNG_VULVU Interferon gamma OS=Vulpes vulpes OX=9627 GN=IFNG PE=2 SV=1	
Canis lupus familiaris	dog	9615	>sp P42161 IFNG_CANLF Interferon gamma OS=Canis lupus familiaris OX=9615 GN=IFNG PE=2 SV=2	
Lama glama	lama	9844	>sp Q865X1 IFNG_LAMGL Interferon gamma OS=Lama glama OX=9844 GN=IFNG PE=2 SV=1	
Physeter catodon	sperm whale	9755	>tr A0A2Y9EPI7 A0A2Y9EPI7_PHYCD Interferon gamma OS=Physeter catodon OX=9755 GN=IFNG PE=3 SV=1	
Marmota monax	woodchuck	9995	>sp O35735 IFNG_MARMO Interferon gamma OS=Marmota monax OX=9995 GN=IFNG PE=2 SV=2	
Bos taurus	cow	9913	>sp P07353 IFNG_BOVIN Interferon gamma OS=Bos taurus OX=9913 GN=IFNG PE=1 SV=1	
Felis catus	cat	9685	>sp P46402 IFNG_FELCA Interferon gamma OS=Felis catus OX=9685 GN=IFNG PE=2 SV=1	

Dasyus novemcinctus	armadillo	9361	>sp Q1WM28 IFNG_DASNO Interferon gamma OS=Dasyus novemcinctus OX=9361 GN=IFNG PE=2 SV=1
Sus scrofa	pig	9823	>sp P17803 IFNG_PIG Interferon gamma OS=Sus scrofa OX=9823 GN=IFNG PE=2 SV=1
Moschus berezovskii	musk deer	68408	>sp Q647G2 IFNG_MOSBE Interferon gamma OS=Moschus berezovskii OX=68408 GN=IFNG PE=2 SV=1
Capra hircus	goat	9925	>tr A3FG73 A3FG73_CAPHI Interferon gamma OS=Capra hircus OX=9925 GN=IFNG PE=2 SV=1
Ovis aries	sheep	9940	>sp P17773 IFNG_SHEEP Interferon gamma OS=Ovis aries OX=9940 GN=IFNG PE=2 SV=1
Bubalus carabanensis	water buffalo	346063	>sp Q2PE75 IFNG_BUBCA Interferon gamma OS=Bubalus carabanensis OX=346063 GN=IFNG PE=2 SV=1
Macaca mulatta	rhesus macaque	9544	>sp P63310 IFNG_MACMU Interferon gamma OS=Macaca mulatta OX=9544 GN=IFNG PE=2 SV=1
Macaca fascicularis	crab-eating macaque	9541	>sp P63309 IFNG_MACFA Interferon gamma OS=Macaca fascicularis OX=9541 GN=IFNG PE=2 SV=1
Papio anubis	olive baboon	9555	>sp Q865Y4 IFNG_PAPAN Interferon gamma OS=Papio anubis OX=9555 GN=IFNG PE=2 SV=1
Tursiops truncatus	dolphin	9739	>sp Q9TV67 IFNG_TURTR Interferon gamma OS=Tursiops truncatus OX=9739 GN=IFNG PE=2 SV=1
Loxodonta africana	african elephant	9785	>tr G3SUC6 G3SUC6_LOXAF Interferon gamma OS=Loxodonta africana OX=9785 GN=IFNG PE=3 SV=1
Oryctolagus cuniculus	rabbit	9986	>sp P30123 IFNG_RABIT Interferon gamma OS=Oryctolagus cuniculus OX=9986 GN=IFNG PE=1 SV=1
Pongo abelii	sumatran orangutan	9601	>tr H2NHZ4 H2NHZ4_PONAB Interferon gamma OS=Pongo abelii OX=9601 GN=IFNG PE=3 SV=1
Gorilla gorilla gorilla	gorilla	9595	>tr G3QT96 G3QT96_GORGO Interferon gamma OS=Gorilla gorilla gorilla OX=9595 PE=3 SV=1
Homo sapiens	human	9606	>sp P01579 IFNG_HUMAN Interferon gamma OS=Homo sapiens OX=9606 GN=IFNG PE=1 SV=1
Pan troglodytes	chimpanzee	9598	>tr H2Q6F3 H2Q6F3_PANTR Interferon gamma OS=Pan troglodytes OX=9598 GN=IFNG PE=3 SV=1

Mammalia

<i>Cavia porcellus</i>	guinea pig	10141	>tr Q8CGS0 Q8CGS0_CAVPO Interferon gamma OS= <i>Cavia porcellus</i> OX=10141 GN=Ifng PE=2 SV=1	
<i>Heterocephalus glaber</i>	naked mole rat	10181	>tr G5BGB5 G5BGB5_HETGA Interferon gamma OS= <i>Heterocephalus glaber</i> OX=10181 GN=GW7_16003 PE=3 SV=1	
<i>Phascolarctos cinereus</i>	koala	38626	>tr S5SA69 S5SA69_PHACI Interferon gamma OS= <i>Phascolarctos cinereus</i> OX=38626 GN=IFNgamma PE=2 SV=1	
<i>Ornithorhynchus anatinus</i>	platypus	9258	>tr F6PQX2 F6PQX2_ORNAN Interferon gamma OS= <i>Ornithorhynchus anatinus</i> OX=9258 GN=IFNG PE=3 SV=1	
<i>Taeniopygia guttata</i>	zebra finch	59729	>tr H0Z8K7 H0Z8K7_TAEGU Interferon gamma OS= <i>Taeniopygia guttata</i> OX=59729 GN=IFNG PE=3 SV=1	Aves
<i>Coturnix japonica</i>	japanese quail	93934	>sp O57571 IFNG_COTJA Interferon gamma OS= <i>Coturnix japonica</i> OX=93934 GN=IFNG PE=3 SV=1	
<i>Phasianus colchicus colchicus</i>	pheasant	9057	>sp O57608 IFNG_PHACO Interferon gamma OS= <i>Phasianus colchicus colchicus</i> OX=9057 GN=IFNG PE=3 SV=1	
<i>Meleagris gallopavo</i>	wild turkey	9103	>tr G1NDA2 G1NDA2_MELGA Interferon gamma OS= <i>Meleagris gallopavo</i> OX=9103 GN=IFNG PE=3 SV=1	
<i>Gallus gallus</i>	chicken	9031	>sp P49708 IFNG_CHICK Interferon gamma OS= <i>Gallus gallus</i> OX=9031 GN=IFNG PE=2 SV=1	
<i>Columba livia</i>	rock dove	8932	>tr A0A2I0MJ31 A0A2I0MJ31_COLLI Interferon gamma OS= <i>Columba livia</i> OX=8932 GN=IFNG PE=3 SV=1	
<i>Anas platyrhynchos</i>	mallard	8839	>sp Q9YGB9 IFNG_ANAPL Interferon gamma OS= <i>Anas platyrhynchos</i> OX=8839 GN=IFNG PE=2 SV=1	
<i>Pelodiscus sinensis</i>	chinese soft-shelled turtle	13735	>tr K7GF20 K7GF20_PELSI Interferon gamma OS= <i>Pelodiscus sinensis</i> OX=13735 GN=IFN-gamma PE=2 SV=1	Reptilia
<i>Alligator sinensis</i>	china alligator	38654	>tr A0A1U7RPI8 A0A1U7RPI8_ALLSI Interferon gamma OS= <i>Alligator sinensis</i> OX=38654 GN=LOC102384045 PE=3 SV=1	
<i>Rhinatrema bivittatum</i>	two-lined caecilian	194408	>XP_029453489.1 interferon gamma [<i>Rhinatrema bivittatum</i>]	

Xenopus tropicalis	tropical clawed frog	8364	>tr B6RCW1 B6RCW1_XENTR Interferon gamma (Fragment) OS=Xenopus tropicalis OX=8364 GN=ifng PE=2 SV=1	Amphibia
Lithobates catesbeiana	american bullfrog	8400	>tr A0A2G9S3S3 A0A2G9S3S3_LITCT Interferon gamma OS=Lithobates catesbeiana OX=8400 GN=AB205_0117080 PE=4 SV=1	
Oncorhynchus mykiss	rainbow trout	8022	>tr Q5QSL2 Q5QSL2_ONCMY Interferon gamma OS=Oncorhynchus mykiss OX=8022 GN=ifng PE=2 SV=1	bony fish
Salmon Salar	atlantic salmon	8030	>tr Q5QRA1 Q5QRA1_SALSA Interferon gamma OS=Salmo salar OX=8030 GN=ifng PE=2 SV=1	
Labeo rohita	carp	84645	>tr F1D7Y1 F1D7Y1_LABRO Interferon gamma OS=Labeo rohita OX=84645 PE=2 SV=1	
Danio rerio	zebra fish	7955	>tr Q5RHHV5 Q5RHHV5_DANRE Interferon gamma 1 OS=Danio rerio OX=7955 GN=ifng1 PE=4 SV=1	
Callorhynchus milii	elephant shark	7868	>XP_007903185.1 PREDICTED: interferon gamma [Callorhynchus milii]	cartilagino us fish

Amino acid sequences of proteins used for SPR
IFNγ: SHGTVIESLESLNNYFNSSGIDVEEKSLFLDIWRNWQKDGDGMKILQSQIISFYLRRLFVVKDNQAISNNISVIESHLITTTFFSNSKA KKDAFMMSIAKFEVNNPQVQRQAFNELIRVVHQLLPESSLRKRKRSRC
IFN$\gamma$$\Delta$KRKR: SHGTVIESLESLNNYFNSSGIDVEEKSLFLDIWRNWQKDGDGMKILQSQIISFYLRRLFVVKDNQAISNNISVIESHLITTTFFSNSKA KKDAFMMSIAKFEVNNPQVQRQAFNELIRVVHQLLPESSLRKRSRC
IFNγ-GFP: SHGTVIESLESLNNYFNSSGIDVEEKSLFLDIWRNWQKDGDGMKILQSQIISFYLRRLFVVKDNQAISNNISVIESHLITTTFFSNSKA KKDAFMMSIAKFEVNNPQVQRQAFNELIRVVHQLLPESSLRKRKRKRSRCGGGGSGGGGSGGGGSMVSKGEELFTGVVPILVELD GDVNGHKFSVSGEGEGDATYGKLTCLKFICTTGKLPVPWPTLVTTLTYGVCFSRYPDHMKQHDFFKSAMPEGYVQERTIFFK DDGNYKTRAEVKFEGDTLVNRIELKGIDFKEDGNILGHKLEYNNSHNVYIMADKQKNGIKVNFKIRHNIEDGSVQLADHYQ QNTPIGDPVLLPDNHYLSTQSALSKDPNEKRDHMLLEFVTAAGITLGMDELYK
IFN$\gamma$$\Delta$KRKR-GFP: SHGTVIESLESLNNYFNSSGIDVEEKSLFLDIWRNWQKDGDGMKILQSQIISFYLRRLFVVKDNQAISNNISVIESHLITTTFFSNSKA KKDAFMMSIAKFEVNNPQVQRQAFNELIRVVHQLLPESSLRKRCGGGGSGGGGSGGGGSMVSKGEELFTGVVPILVELDGDVN GHKFSVSGEGEGDATYGKLTCLKFICTTGKLPVPWPTLVTTLTYGVCFSRYPDHMKQHDFFKSAMPEGYVQERTIFFKDDGN YKTRAEVKFEGDTLVNRIELKGIDFKEDGNILGHKLEYNNSHNVYIMADKQKNGIKVNFKIRHNIEDGSVQLADHYQQNTPI GDGPVLLPDNHYLSTQSALSKDPNEKRDHMLLEFVTAAGITLGMDELYK
IFNγR1: GSALTSTEDPEPPSVVPPTNVLIKSYNLNPVVCWEYQNMSQTPIFTVQVKVYSGSWTDSCTNISDHCCNIYEQIMYPDVSAWA RVKAKVGQKESDYARSKEFLMCLKGKVGPPGLEIRRKKEEQLSVLVFHPEVVVNGESQGTMTFGDGSTCYTFDYTVYVEHNR SGEILHTKHTVEKEECNETLCELNISVSTLDSRYCISVDGISSFVQVRTEKSKDVCIPPFHDDRKDSENLYFQGLEHHHHHH