Find a Gene Assignment - BGGN213

Jason Hsiao (A15871650)

1) Protein: Human IL-4 Isoform 3 Precursor Accession Number: NP_001341919.1

Species: **Human**

2) BLAST Method Used: tblastn 2.14.1+ Database: Expressed sequence tags (est)

Job Title	NP_001341919:interleukin-4 isoform 3 precursor					
RID	KJV3BYJR013 Search expires on 10-27 03:28 am Download All ➤					
Program	TBLASTN ② Citation ▼					
Database	est <u>See details</u> ➤					
Query ID	NP 001341919.1					
Description	interleukin-4 isoform 3 precursor [Homo sapiens]					
Molecule type	amino acid					
Query Length	136					
Other reports	•					

	AGENCOURT_14496778 NIH_MGC_195 Homo sapiens cDNA clone IMAGE:6971779 5', mRNA sequence	Homo sapiens	106	177	72%	3e-36	85.25%	537	CD559679.2
	EST365300 MAGE resequences, MAGB Homo sapiens cDNA, mRNA sequence	Homo sapiens	106	177	72%	4e-36	83.87%	602	AW953230.1
	AGENCOURT_14532625 NIH_MGC_191 Homo sapiens cDNA clone IMAGE:30415895 5', mRNA sequence	Homo sapiens	105	177	72%	4e-36	85.25%	648	CD640452.1
	AGENCOURT_14496806 NIH_MGC_195 Homo sapiens cDNA clone IMAGE:6971780 5', mRNA sequence	Homo sapiens	105	177	72%	4e-36	85.25%	556	CD559525.2
	AGENCOURT_14496680 NIH_MGC_195 Homo sapiens cDNA clone IMAGE:6971778 5', mRNA sequence	Homo sapiens	105	177	72%	4e-36	85.25%	526	CD559527.2
	14573 Full Length cDNA from the Mammalian Gene Collection Homo sapiens cDNA 5' similar to BC067514, mRN.	<u>Homo sapiens</u>	105	177	72%	4e-36	85.25%	625	EL736798.1
	AGENCOURT_14496716 NIH_MGC_195 Homo sapiens cDNA clone IMAGE:6971778 5', mRNA sequence	Homo sapiens	105	177	72%	5e-36	85.25%	541	CD559680.2
	AGENCOURT_14496840 NIH_MGC_195 Homo sapiens cDNA clone IMAGE:6971780 5', mRNA sequence	Homo sapiens	105	177	72%	5e-36	85.25%	539	CD559678.2
	AGENCOURT_14496742 NIH_MGC_195 Homo sapiens cDNA clone IMAGE:6971779 5', mRNA sequence	Homo sapiens	105	177	72%	5e-36	85.25%	559	CD559526.2
	AGENCOURT_14497059 NIH_MGC_195 Homo sapiens cDNA clone IMAGE:6971784 5', mRNA sequence	Homo sapiens	104	176	72%	9e-36	83.61%	664	CK130262.1
	AGENCOURT_14496930 NIH_MGC_195 Homo sapiens cDNA clone IMAGE:6971782 5', mRNA sequence	Homo sapiens	105	175	72%	2e-35	85.25%	536	CD559523.2
	AGENCOURT_14496966 NIH_MGC_195 Homo sapiens cDNA clone IMAGE:6971782 3', mRNA sequence	Homo sapiens	105	175	72%	2e-35	85.25%	528	CD559676.1
	AGENCOURT_14496867 NIH_MGC_195 Homo sapiens cDNA clone IMAGE:6971781 5', mRNA sequence	Homo sapiens	104	175	72%	2e-35	83.61%	561	CD559524.2
	AGENCOURT_14496902 NIH_MGC_195 Homo sapiens cDNA clone IMAGE:6971781 3', mRNA sequence	Homo sapiens	104	175	72%	2e-35	83.61%	528	CD559677.1
	AGENCOURT_14354235 NIH_MGC_191 Homo sapiens cDNA clone IMAGE:30409212 5', mRNA sequence	Homo sapiens	95.5	167	61%	3e-33	95.74%	851	CD521402.1
	EST71622 Human White blood cells Homo saniens cDNA 5' end similar to interleukin 4 (HT:716), mRNA sequence	Homo saniens	81.3	120	60%	5e-19	80.65%	290	T29166.1
☑	020829OSI1024037HT OSI Ovis aries cDNA, mRNA sequence	Ovis aries	76.6	112	62%	7e-17	59.68%	546	EE850889.1
	est t truncatus2245 HML_TuTr_IL-2_PBL Tursiops truncatus cDNA, mRNA sequence	Tursiops truncatus	73.2	73.2	31%	1e-14	74.42%	303	DV799593.1
	DC391247 SPLEN2 Homo sapiens cDNA clone SPLEN2031387 5', mRNA sequence	Homo sapiens	56.2	56.2	20%	2e-07	100.00%	560	DC391247.1
	HL01018B2H10 Equine lymphocyte cDNA Library Equus caballus cDNA clone HL01018B2H10, mRNA sequence	Equus caballus	55.1	55.1	47%	4e-07	48.48%	527	DN506696.1
	EST00005 Cattle PBMC library Bos taurus x Bos indicus cDNA clone PDFMD-Beas/Bovine IL-4 clone similar to B	. Bos indicus x Bo	40.4	40.4	29%	0.037	55.00%	289	HS091871.1

020829OSI1024037HT OSI Ovis aries cDNA, mRNA sequence

Sequence ID: EE850889.1 Length: 546 Number of Matches: 2

Range 1	l: 47 t	0 232	<u>GenBank</u>	Graphics				▼ Next M	atch A	Previous Match
Score	te/187		t Method	sitional matri	v adjust	Identities	Positives 47/62(75%)	Gaps 0/62(0%)	Frame	
70.0 bit	13(107)	, , e-1	Compo	Sitional matri	x aujust.	42/02(0070)	47/02(7370)	0/02(070)	72	
Query	1						LNSLTEQKTLC			60
Sbjct	47		-				LNILTSRKNSC			226
Query	61	~	62							
Sbjct	227	K KN	232							
Range 2: 222 to 290 GenBank Graphics ▼ Next Match ▲ Previous Match ▲ First Match										n & First Match
Score		Expect	Method			Identities	Positives	Gaps	Frame	
35.8 bit	ts(81)	7e-17	Compos	itional matrix	adjust.	17/23(74%)	18/23(78%)	0/23(0%)	+3	
Query	93			AGLRLCSGSS		5				
Shict	222	PORT	OLBEKES	AGLELSLGVS	STG 29	0				

Translated Protein Sequence via Emboss Transeq

>EMBOSS 001 1

VN*LSHTVSANRDTINGSHLPADPSAGLLTGMYQPLRPWTQV*YYLRRDHQNAEHPHIEK EFMHGAACSRRLCCPKERN*EGNLLQGWN*A*AYLQEPHVLEQIPGRT*QESQQPGKQDL FCE*SQDEYKYAERPLGKAKDYYEGEILKVLKLNILIYDFLIALF*TYLYIYNSS*NKVY

