



An official website of the United States government

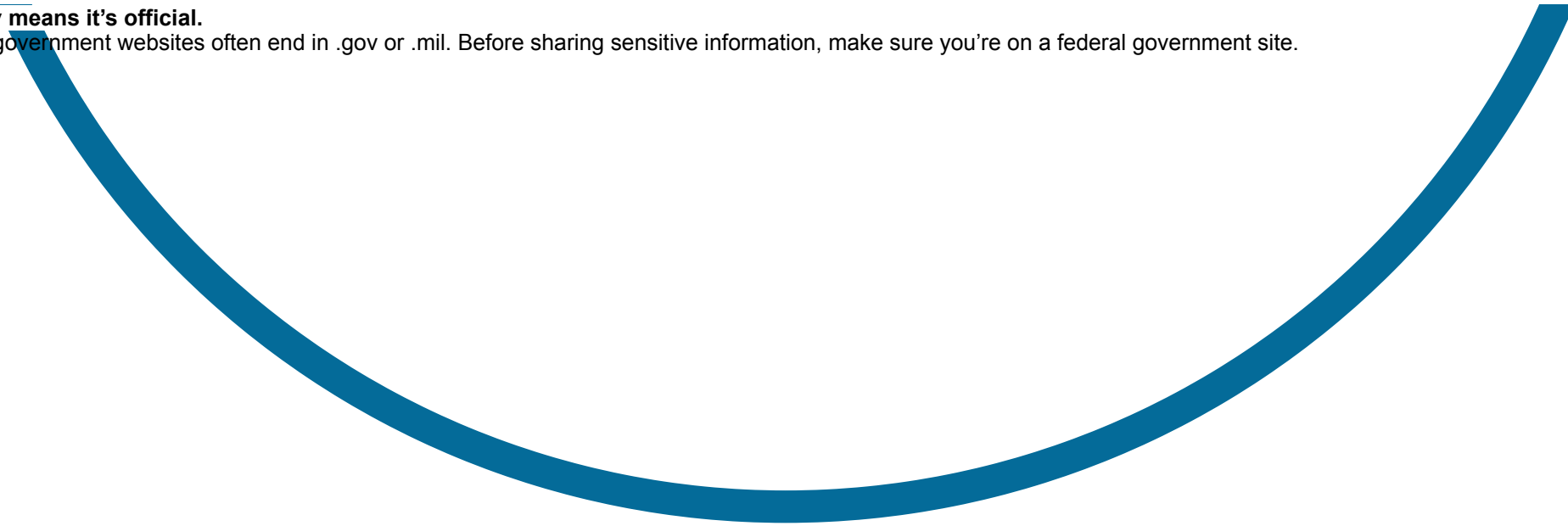
Here's how you know





The .gov means it's official.

Federal government websites often end in .gov or .mil. Before sharing sensitive information, make sure you're on a federal government site.





The site is secure.

The https:// ensures that you are connecting to the official website and that any information you provide is encrypted and transmitted securely.

Access keys [NCBI Homepage](#) [MyNCBI Homepage](#) [Main Content](#) [Main Navigation](#)

BLAST® >> **blastp suite** >> results for RID-0P0NM7TA01N

Your search parameters were adjusted to search for a short input sequence.
Your search is limited to records that include: Humo sapiens (taxid:9606)

[Protein Sequence ...](#)

[0P0NM7TA01N](#) Search expires on 03-11 17:13 pm

BLASTP

nr

lcl|Query_192470

[unnamed protein product ...](#)

amino acid

Query Length 15

Compare these results against the new Clustered nr database



Descriptions

Description	Scientific Name	Max Score	Total Score	Query Cover	E value	Per. Ident	Acc. Len	Accession
immunoglobulin heavy chain junction region [Homo sapiens]	Homo sapiens	26.9	26.9	66%	1.2	90.00%	17	MBN4346538.1
collagen II alpha 1 chain [Homo sapiens]	Homo sapiens	25.2	25.2	66%	9.3	75.00%	243	CAA40330.1
COL2A1 [Homo sapiens]	Homo sapiens	25.2	25.2	66%	9.3	75.00%	1160	CAA34683.1
collagen alpha-1(II) chain isoform X4 [Homo sapiens]	Homo sapiens	25.2	25.2	66%	9.3	75.00%	1305	XP_016874320.1
collagen, type II, alpha 1 (primary osteoarthritis, spondyloepiphyseal dysplasia, congenital), isoform CRA_d [Homo sapiens]	Homo sapiens	25.2	25.2	66%	9.3	75.00%	1387	EAW57969.1

Description ▼	Scientific Name ▼	Max Score ▼	Total Score ▼	Query Cover ▼	E value ▼	Per. Ident ▼	Acc. Len ▼	Accession
collagen, type II, alpha 1 (primary osteoarthritis, spondyloepiphyseal dysplasia, congenital), isoform CRA_b [Homo sapiens]	Homo sapiens	25.2	25.2	66%	9.3	75.00%	1418	EAW57967.1
collagen alpha-1(II) chain isoform 2 precursor [Homo sapiens]	Homo sapiens	25.2	25.2	66%	9.3	75.00%	1418	NP_149162.2
collagen type II alpha 1 chain [Homo sapiens]	Homo sapiens	25.2	25.2	66%	9.3	75.00%	1418	KAI4065584.1
collagen, type II, alpha 1 (primary osteoarthritis, spondyloepiphyseal dysplasia, congenital), isoform CRA_a [Homo sapiens]	Homo sapiens	25.2	25.2	66%	9.3	75.00%	1418	EAW57966.1
unnamed protein product [Homo sapiens]	Homo sapiens	25.2	25.2	66%	9.3	75.00%	1418	CAA34488.1
collagen alpha-1(II) chain isoform X3 [Homo sapiens]	Homo sapiens	25.2	25.2	66%	9.3	75.00%	1465	XP_016874319.1
alpha-1 type II collagen [Homo sapiens]	Homo sapiens	25.2	25.2	66%	9.3	75.00%	1487	AAC41772.1
collagen alpha-1(II) chain isoform 1 precursor [Homo sapiens]	Homo sapiens	25.2	25.2	66%	9.3	75.00%	1487	NP_001835.3
collagen type II alpha 1 chain [Homo sapiens]	Homo sapiens	25.2	25.2	66%	9.3	75.00%	1487	KAI4065583.1
collagen, type II, alpha 1 (primary osteoarthritis, spondyloepiphyseal dysplasia, congenital), isoform CRA_e [Homo sapiens]	Homo sapiens	25.2	25.2	66%	9.3	75.00%	1487	EAW57970.1
collagen, type II, alpha 1 (primary osteoarthritis, spondyloepiphyseal dysplasia, congenital), isoform CRA_c [Homo sapiens]	Homo sapiens	25.2	25.2	66%	9.3	75.00%	1488	EAW57968.1
collagen alpha-1(II) chain isoform X2 [Homo sapiens]	Homo sapiens	25.2	25.2	66%	9.3	75.00%	1534	XP_016874318.1
collagen alpha-1(II) chain isoform X1 [Homo sapiens]	Homo sapiens	25.2	25.2	66%	9.3	75.00%	1535	XP_016874317.1
LBH domain containing 2 [Homo sapiens]	Homo sapiens	24.4	24.4	86%	18	69.23%	108	KAI2572907.1
LBH domain-containing protein 2 [Homo sapiens]	Homo sapiens	24.4	24.4	86%	18	69.23%	108	NP_001317165.1
EHBP1L1 protein [Homo sapiens]	Homo sapiens	24.0	24.0	86%	26	61.54%	243	AAH24207.2
COL8A2 protein [Homo sapiens]	Homo sapiens	24.0	57.1	53%	27	88.89%	427	AAH96296.1
EH domain-binding protein 1-like protein 1 isoform X10 [Homo sapiens]	Homo sapiens	24.0	24.0	86%	27	61.54%	507	XP_011543188.1
alpha-2 type VIII collagen [Homo sapiens]	Homo sapiens	24.0	57.1	53%	27	88.89%	635	AAA62822.1

Description ▼	Scientific Name ▼	Max Score ▼	Total Score ▼	Query Cover ▼	E value ▼	Per. Ident ▼	Acc. Len ▼	Accession
collagen alpha-2(VIII) chain isoform 2 [Homo sapiens]	Homo sapiens	24.0	57.1	53%	27	88.89%	638	NP_001281276.1
collagen type VIII alpha 2 [Homo sapiens]	Homo sapiens	24.0	57.1	53%	27	88.89%	638	AGN55425.1
collagen type VIII alpha 2 [Homo sapiens]	Homo sapiens	24.0	57.1	53%	27	88.89%	638	AGN55428.1
COL8A2 protein [Homo sapiens]	Homo sapiens	24.0	57.1	53%	27	88.89%	657	AAH96297.1
collagen alpha-2(VIII) chain isoform 1 precursor [Homo sapiens]	Homo sapiens	24.0	57.1	53%	27	88.89%	703	NP_005193.1
EH domain-binding protein 1-like protein 1 isoform 2 [Homo sapiens]	Homo sapiens	24.0	24.0	86%	27	61.54%	765	NP_001338016.1
EH domain-binding protein 1-like protein 1 isoform X9 [Homo sapiens]	Homo sapiens	24.0	24.0	86%	27	61.54%	777	XP_005273927.1
EH domain-binding protein 1-like protein 1 isoform X8 [Homo sapiens]	Homo sapiens	24.0	24.0	86%	27	61.54%	835	XP_005273926.1
EH domain-binding protein 1-like protein 1 isoform X7 [Homo sapiens]	Homo sapiens	24.0	24.0	86%	27	61.54%	923	XP_047282661.1
EH domain-binding protein 1-like protein 1 isoform X6 [Homo sapiens]	Homo sapiens	24.0	24.0	86%	27	61.54%	935	XP_005273925.1
EH domain-binding protein 1-like protein 1 isoform X5 [Homo sapiens]	Homo sapiens	24.0	24.0	86%	27	61.54%	993	XP_005273924.1
FLJ00043 protein [Homo sapiens]	Homo sapiens	24.0	37.3	86%	27	61.54%	1415	BAB15741.1
EH domain-binding protein 1-like protein 1 isoform X3 [Homo sapiens]	Homo sapiens	24.0	37.3	86%	27	61.54%	1463	XP_047282660.1
EH domain-binding protein 1-like protein 1 isoform X2 [Homo sapiens]	Homo sapiens	24.0	37.3	86%	27	61.54%	1502	XP_016872956.1
hCG23295 [Homo sapiens]	Homo sapiens	24.0	37.3	86%	27	61.54%	1508	EAW74410.1
hypothetical protein [Homo sapiens]	Homo sapiens	24.0	37.3	86%	27	61.54%	1510	CAD39093.1
EH domain-binding protein 1-like protein 1 isoform 1 [Homo sapiens]	Homo sapiens	24.0	37.3	86%	27	61.54%	1523	NP_001092879.1
EH domain binding protein 1 like 1 [Homo sapiens]	Homo sapiens	24.0	37.3	86%	27	61.54%	1523	KAI2560977.1
EH domain-binding protein 1-like protein 1 isoform X1 [Homo sapiens]	Homo sapiens	24.0	37.3	86%	27	61.54%	1535	XP_006718549.1
sorting nexin 2 [Homo sapiens]	Homo sapiens	23.5	23.5	60%	37	66.67%	76	KAI2538591.1

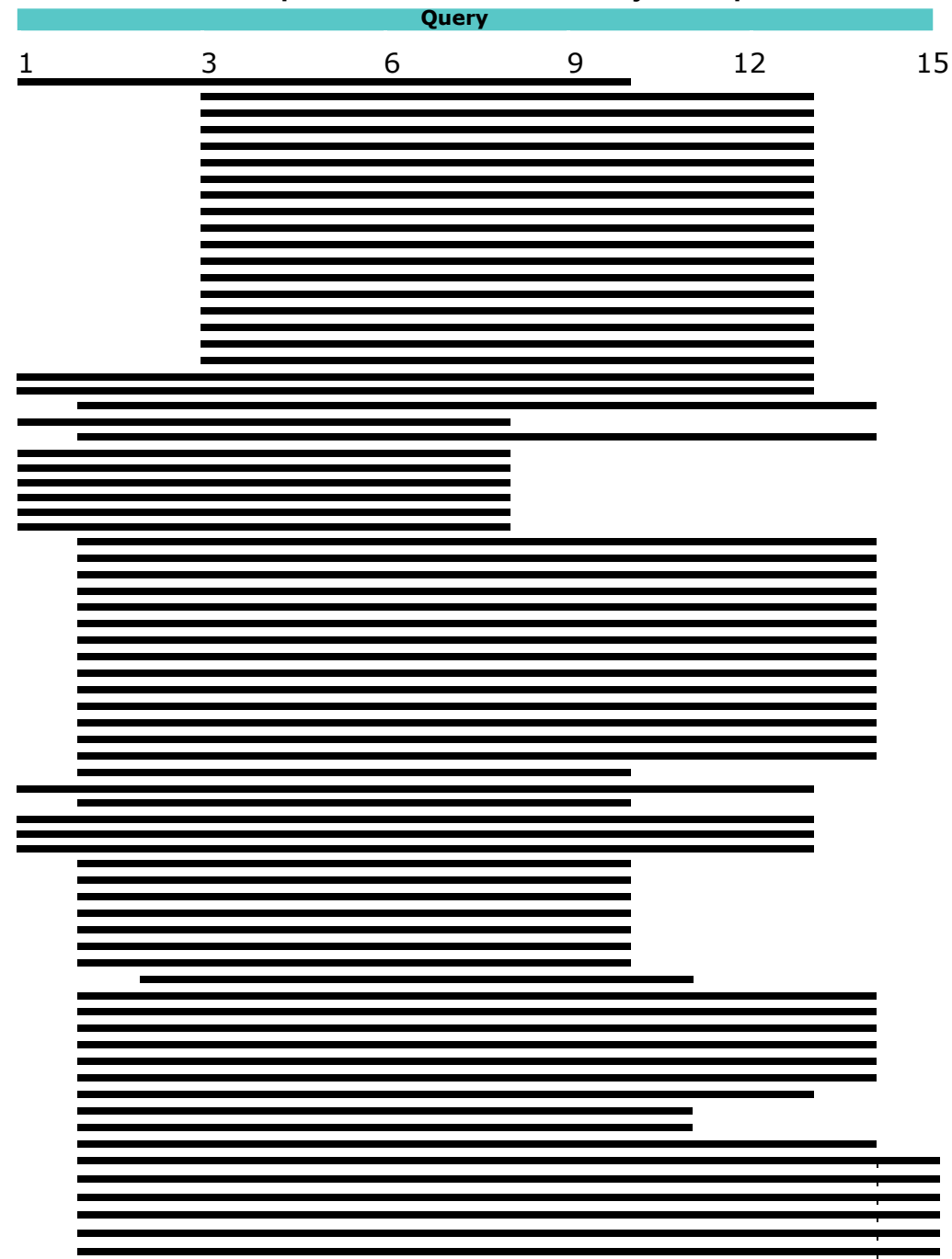
Description ▼	Scientific Name ▼	Max Score ▼	Total Score ▼	Query Cover ▼	E value ▼	Per. Ident ▼	Acc. Len ▼	Accession
LOC387763 protein [Homo sapiens]	Homo sapiens	23.5	72.1	86%	37	76.92%	227	AAH52560.1
sorting nexin 2 [Homo sapiens]	Homo sapiens	23.5	23.5	60%	38	66.67%	266	KAI2538590.1
RecName: Full=Uncharacterized protein C11orf96; AltName: Full=Protein Ag2 homolog [Homo sapiens]	Homo sapiens	23.5	72.1	86%	38	76.92%	435	Q7Z7L8.3
hypothetical protein G5576_005471 [Homo sapiens]	Homo sapiens	23.5	72.1	86%	38	76.92%	435	KAI4070852.1
hypothetical protein KI723_110637 [Homo sapiens]	Homo sapiens	23.5	72.1	86%	38	76.92%	435	KAI2559508.1
sorting nexin 2, isoform CRA_a [Homo sapiens]	Homo sapiens	23.5	23.5	60%	38	66.67%	480	EAW48883.1
unnamed protein product [Homo sapiens]	Homo sapiens	23.5	23.5	60%	38	66.67%	519	BAG51023.1
sorting nexin 2 [Homo sapiens]	Homo sapiens	23.5	23.5	60%	38	66.67%	519	AAC17181.1
sorting nexin-2 isoform 1 [Homo sapiens]	Homo sapiens	23.5	23.5	60%	38	66.67%	519	NP_003091.2
sorting nexin 2 variant [Homo sapiens]	Homo sapiens	23.5	23.5	60%	38	66.67%	519	BAD96688.1
unnamed protein product [Homo sapiens]	Homo sapiens	23.5	23.5	60%	38	66.67%	519	BAG51219.1
transformation-related 9 [Homo sapiens]	Homo sapiens	23.5	23.5	60%	38	66.67%	519	AAQ02693.1
immunoglobulin heavy chain junction region [Homo sapiens]	Homo sapiens	23.1	23.1	60%	41	77.78%	21	MBN4296205.1
vitelline membrane outer layer protein 1 homolog isoform 3 precursor [Homo sapiens]	Homo sapiens	23.1	23.1	86%	53	61.54%	102	NP_001138412.1
vitelline membrane outer layer protein 1 homolog isoform 2 precursor [Homo sapiens]	Homo sapiens	23.1	23.1	86%	53	61.54%	114	NP_001138411.1
VMO1 protein [Homo sapiens]	Homo sapiens	23.1	23.1	86%	53	61.54%	151	AAI04195.1
vitelline membrane outer layer 1 homolog (chicken), isoform CRA_b [Homo sapiens]	Homo sapiens	23.1	23.1	86%	53	61.54%	202	EAW90411.1
vitelline membrane outer layer protein 1 homolog isoform 1 precursor [Homo sapiens]	Homo sapiens	23.1	23.1	86%	53	61.54%	202	NP_872372.1
fibrosin-1-like protein isoform 7 [Homo sapiens]	Homo sapiens	23.1	23.1	86%	53	61.54%	297	NP_001369672.1
hCG1791601, isoform CRA_b [Homo sapiens]	Homo sapiens	23.1	23.1	80%	53	52.94%	416	EAW48611.1
collagen type V alpha-2 precursor [Homo sapiens]	Homo sapiens	23.1	38.6	66%	53	70.00%	463	AAA51859.1
unnamed protein product [Homo sapiens]	Homo sapiens	23.1	38.6	66%	53	70.00%	586	BAG60252.1
fibrosin-1-like protein isoform 5 [Homo sapiens]	Homo sapiens	23.1	23.1	86%	53	61.54%	589	NP_001369670.1

Description ▼	Scientific Name ▼	Max Score ▼	Total Score ▼	Query Cover ▼	E value ▼	Per. Ident ▼	Acc. Len ▼	Accession
fibrosin-1-like protein isoform X16 [Homo sapiens]	Homo sapiens	23.1	70.8	93%	53	61.54%	748	XP_047285176.1
fibrosin-1-like protein isoform 4 [Homo sapiens]	Homo sapiens	23.1	54.5	93%	53	61.54%	795	NP_001369669.1
fibrosin-1-like protein isoform 2 [Homo sapiens]	Homo sapiens	23.1	70.8	93%	54	61.54%	1002	NP_001354800.1
fibrosin-1-like protein isoform 3 [Homo sapiens]	Homo sapiens	23.1	70.4	93%	54	61.54%	1020	NP_001369668.1
fibrosin-1-like protein isoform X14 [Homo sapiens]	Homo sapiens	23.1	70.8	93%	54	61.54%	1034	XP_011533112.1
fibrosin like 1 [Homo sapiens]	Homo sapiens	23.1	70.8	93%	54	61.54%	1041	KAI2568763.1
fibrosin-1-like protein isoform X13 [Homo sapiens]	Homo sapiens	23.1	86.8	93%	54	61.54%	1042	XP_011533111.1
fibrosin-1-like protein isoform X12 [Homo sapiens]	Homo sapiens	23.1	70.8	93%	54	61.54%	1043	XP_005266234.1
fibrosin-1-like protein isoform X11 [Homo sapiens]	Homo sapiens	23.1	86.8	93%	54	61.54%	1044	XP_005266233.1
fibrosin-1-like protein isoform 1 [Homo sapiens]	Homo sapiens	23.1	70.4	93%	54	61.54%	1045	NP_001136113.1
fibrosin like 1 [Homo sapiens]	Homo sapiens	23.1	70.4	93%	54	61.54%	1045	KAI2568764.1
fibrosin-1-like protein isoform X8 [Homo sapiens]	Homo sapiens	23.1	70.8	93%	54	61.54%	1062	XP_011533110.1
fibrosin-1-like protein isoform X9 [Homo sapiens]	Homo sapiens	23.1	86.8	93%	54	61.54%	1062	XP_047285175.1
fibrosin-1-like protein isoform X10 [Homo sapiens]	Homo sapiens	23.1	86.8	93%	54	61.54%	1062	XP_005266232.1
fibrosin-1-like protein isoform X7 [Homo sapiens]	Homo sapiens	23.1	86.8	93%	54	61.54%	1063	XP_011533109.1
fibrosin-1-like protein isoform X5 [Homo sapiens]	Homo sapiens	23.1	86.3	93%	54	61.54%	1081	XP_011533107.1
fibrosin-1-like protein isoform X6 [Homo sapiens]	Homo sapiens	23.1	86.8	93%	54	61.54%	1081	XP_011533108.1
fibrosin-1-like protein isoform X4 [Homo sapiens]	Homo sapiens	23.1	86.8	93%	54	61.54%	1083	XP_005266230.1
fibrosin-1-like protein isoform X3 [Homo sapiens]	Homo sapiens	23.1	86.8	93%	54	61.54%	1085	XP_005266228.1
fibrosin-1-like protein isoform X2 [Homo sapiens]	Homo sapiens	23.1	86.8	93%	54	61.54%	1103	XP_011533106.1
fibrosin-1-like protein isoform X1 [Homo sapiens]	Homo sapiens	23.1	86.8	93%	54	61.54%	1104	XP_011533105.1
collagen type V alpha 2 chain [Homo sapiens]	Homo sapiens	23.1	56.6	86%	54	70.00%	1112	KAI2526102.1
COL5A2 protein [Homo sapiens]	Homo sapiens	23.1	72.1	86%	54	70.00%	1139	AAH86874.1
type V procollagen alpha 2 chain [Homo sapiens]	Homo sapiens	23.1	72.1	86%	54	70.00%	1347	AAL13166.1
collagen alpha-2(V) chain isoform X1 [Homo sapiens]	Homo sapiens	23.1	72.1	86%	54	70.00%	1453	XP_011508875.1
procollagen alpha 2(V) [Homo sapiens]	Homo sapiens	23.1	70.4	86%	54	70.00%	1496	CAA75002.1

Description	Scientific Name	Max Score	Total Score	Query Cover	E value	Per. Ident	Acc. Len	Accession
collagen, type V, alpha 2, isoform CRA_a [Homo sapiens]	Homo sapiens	23.1	72.1	86%	54	70.00%	1497	EAX10906.1
collagen alpha-2(V) chain preproprotein [Homo sapiens]	Homo sapiens	23.1	72.1	86%	54	70.00%	1499	NP_000384.2
alpha 2 type V collagen preproprotein variant [Homo sapiens]	Homo sapiens	23.1	72.1	86%	54	70.00%	1502	BAD92282.1

Graphic Summary

Distribution of the top 228 Blast Hits on 96 subject sequences



Alignments

Alignment view

Pairwise


☐ CDS feature

Restore defaults

immunoglobulin heavy chain junction region [Homo sapiens]

Sequence ID: **MBN4346538.1** Length: 17 Number of Matches: 1

Range 1: 7 to 15

Score	Expect	Identities
26.9 bits(56)	1.2()	9/10(90%)

Query	1	GEPPPGKPAD	10
		GEPPPG PAD	
Sbjct	7	GEPPPG-PAD	15

Positives	Gaps	Frame
9/10(90%)	1/10(10%)	

collagen II alpha 1 chain, partial [Homo sapiens]

Sequence ID: **CAA40330.1** Length: 243 Number of Matches: 1

Range 1: 149 to 160

Score	Expect	Identities	Positives	Gaps	Frame
25.2 bits(52)	9.3()	9/12(75%)	9/12(75%)	2/12(16%)	

Query	4	PPGKPADD--AG	13
		PPGKP DD AG	
Sbjct	149	PPGKPGDDGEAG	160

COL2A1, partial [Homo sapiens]

Sequence ID: **CAA34683.1** Length: 1160 Number of Matches: 1

Range 1: 178 to 189

Score	Expect	Identities	Positives	Gaps	Frame
25.2 bits(52)	9.3()	9/12(75%)	9/12(75%)	2/12(16%)	

Query	4	PPGKPADD--AG	13
		PPGKP DD AG	
Sbjct	178	PPGKPGDDGEAG	189

collagen alpha-1(II) chain isoform X4 [Homo sapiens]

Sequence ID: **XP_016874320.1** Length: 1305 Number of Matches: 1

Range 1: 65 to 76

Score	Expect	Identities	Positives	Gaps	Frame
25.2 bits(52)	9.3()	9/12(75%)	9/12(75%)	2/12(16%)	
Query 4	PPGKPADD--AG	13			
	PPGKP DD AG				
Sbjct 65	PPGKPGDDGEAG	76			

collagen, type II, alpha 1 (primary osteoarthritis, spondyloepiphyseal dysplasia, congenital), isoform CRA_d [Homo sapiens]

Sequence ID: **EAW57969.1** Length: 1387 Number of Matches: 1

Range 1: 147 to 158

Score	Expect	Identities	Positives	Gaps	Frame
25.2 bits(52)	9.3()	9/12(75%)	9/12(75%)	2/12(16%)	
Query 4	PPGKPADD--AG	13			
	PPGKP DD AG				
Sbjct 147	PPGKPGDDGEAG	158			

collagen, type II, alpha 1 (primary osteoarthritis, spondyloepiphyseal dysplasia, congenital), isoform CRA_b [Homo sapiens]

Sequence ID: **EAW57967.1** Length: 1418 Number of Matches: 1

Range 1: 178 to 189

Score	Expect	Identities	Positives	Gaps	Frame
25.2 bits(52)	9.3()	9/12(75%)	9/12(75%)	2/12(16%)	
Query 4	PPGKPADD--AG	13			
	PPGKP DD AG				
Sbjct 178	PPGKPGDDGEAG	189			

collagen alpha-1(II) chain isoform 2 precursor [Homo sapiens]

Sequence ID: **NP_149162.2** Length: 1418 Number of Matches: 1

Range 1: 178 to 189

Score	Expect	Identities	Positives	Gaps	Frame
25.2 bits(52)	9.3()	9/12(75%)	9/12(75%)	2/12(16%)	
Query 4	PPGKPADD--AG	13			
	PPGKP DD AG				
Sbjct 178	PPGKPGDDGEAG	189			

collagen type II alpha 1 chain [Homo sapiens]

Sequence ID: **KAI4065584.1** Length: 1418 Number of Matches: 1

Range 1: 178 to 189

Score	Expect	Identities	Positives	Gaps	Frame
25.2 bits(52)	9.3()	9/12(75%)	9/12(75%)	2/12(16%)	
Query 4	PPGKPADD--AG	13			
	PPGKP DD AG				
Sbjct 178	PPGKPGDDGEAG	189			

collagen, type II, alpha 1 (primary osteoarthritis, spondyloepiphyseal dysplasia, congenital), isoform CRA_a [Homo sapiens]

Sequence ID: **EAW57966.1** Length: 1418 Number of Matches: 1

Range 1: 178 to 189

Score	Expect	Identities	Positives	Gaps	Frame
25.2 bits(52)	9.3()	9/12(75%)	9/12(75%)	2/12(16%)	
Query 4	PPGKPADD--AG	13			
	PPGKP DD AG				
Sbjct 178	PPGKPGDDGEAG	189			

unnamed protein product [Homo sapiens]

Sequence ID: **CAA34488.1** Length: 1418 Number of Matches: 1

Range 1: 178 to 189

Score	Expect	Identities	Positives	Gaps	Frame
25.2 bits(52)	9.3()	9/12(75%)	9/12(75%)	2/12(16%)	

Query 4 PPGKPADD--AG 13
 PPGKP DD AG
 Sbjct 178 PPGKPGDDGEAG 189

collagen alpha-1(II) chain isoform X3 [Homo sapiens]

Sequence ID: **XP_016874319.1** Length: 1465 Number of Matches: 1

Range 1: 225 to 236

Score	Expect	Identities	Positives	Gaps	Frame
25.2 bits(52)	9.3()	9/12(75%)	9/12(75%)	2/12(16%)	
Query 4	PPGKPADD--AG	13			
	PPGKP DD AG				
Sbjct 225	PPGKPGDDGEAG	236			

alpha-1 type II collagen [Homo sapiens]

Sequence ID: **AAC41772.1** Length: 1487 Number of Matches: 1

Range 1: 247 to 258

Score	Expect	Identities	Positives	Gaps	Frame
25.2 bits(52)	9.3()	9/12(75%)	9/12(75%)	2/12(16%)	
Query 4	PPGKPADD--AG	13			
	PPGKP DD AG				
Sbjct 247	PPGKPGDDGEAG	258			

collagen alpha-1(II) chain isoform 1 precursor [Homo sapiens]

Sequence ID: **NP_001835.3** Length: 1487 Number of Matches: 1

Range 1: 247 to 258

Score	Expect	Identities	Positives	Gaps	Frame
25.2 bits(52)	9.3()	9/12(75%)	9/12(75%)	2/12(16%)	
Query 4	PPGKPADD--AG	13			
	PPGKP DD AG				
Sbjct 247	PPGKPGDDGEAG	258			

collagen type II alpha 1 chain [Homo sapiens]

Sequence ID: **KAI4065583.1** Length: 1487 Number of Matches: 1

Range 1: 247 to 258

Score	Expect	Identities	Positives	Gaps	Frame
25.2 bits(52)	9.3()	9/12(75%)	9/12(75%)	2/12(16%)	
Query 4	PPGKPADD--AG	13			
	PPGKP DD AG				
Sbjct 247	PPGKPGDDGEAG	258			

collagen, type II, alpha 1 (primary osteoarthritis, spondyloepiphyseal dysplasia, congenital), isoform CRA_e [Homo sapiens]

Sequence ID: **EAW57970.1** Length: 1487 Number of Matches: 1

Range 1: 247 to 258

Score	Expect	Identities	Positives	Gaps	Frame
25.2 bits(52)	9.3()	9/12(75%)	9/12(75%)	2/12(16%)	
Query 4	PPGKPADD--AG	13			
	PPGKP DD AG				
Sbjct 247	PPGKPGDDGEAG	258			

collagen, type II, alpha 1 (primary osteoarthritis, spondyloepiphyseal dysplasia, congenital), isoform CRA_c [Homo sapiens]

Sequence ID: **EAW57968.1** Length: 1488 Number of Matches: 1

Range 1: 248 to 259

Score	Expect	Identities	Positives	Gaps	Frame
25.2 bits(52)	9.3()	9/12(75%)	9/12(75%)	2/12(16%)	
Query 4	PPGKPADD--AG	13			
	PPGKP DD AG				
Sbjct 248	PPGKPGDDGEAG	259			

collagen alpha-1(II) chain isoform X2 [Homo sapiens]

Sequence ID: **XP_016874318.1** Length: 1534 Number of Matches: 1

Range 1: 294 to 305

Score	Expect	Identities	Positives	Gaps	Frame
25.2 bits(52)	9.3()	9/12(75%)	9/12(75%)	2/12(16%)	
Query 4	PPGKPADD--AG	13			
	PPGKP DD AG				
Sbjct 294	PPGKPGDDGEAG	305			

collagen alpha-1(II) chain isoform X1 [Homo sapiens]

Sequence ID: **XP_016874317.1** Length: 1535 Number of Matches: 1

Range 1: 295 to 306

Score	Expect	Identities	Positives	Gaps	Frame
25.2 bits(52)	9.3()	9/12(75%)	9/12(75%)	2/12(16%)	
Query 4	PPGKPADD--AG	13			
	PPGKP DD AG				
Sbjct 295	PPGKPGDDGEAG	306			

LBH domain containing 2 [Homo sapiens]

Sequence ID: **KAI2572907.1** Length: 108 Number of Matches: 1

Range 1: 83 to 93

Score	Expect	Identities	Positives	Gaps	Frame
24.4 bits(50)	18()	9/13(69%)	10/13(76%)	2/13(15%)	
Query 1	GEPPPGKPADDAG	13			
	GEP GK AD+AG				
Sbjct 83	GEP--GKAADNAG	93			

LBH domain-containing protein 2 [Homo sapiens]

Sequence ID: **NP_001317165.1** Length: 108 Number of Matches: 1

Range 1: 83 to 93

Score	Expect	Identities	Positives	Gaps	Frame
24.4 bits(50)	18()	9/13(69%)	10/13(76%)	2/13(15%)	

Query 1 GEPPPGKPADAG 13
GEP GK AD+AG
Sbjct 83 GEP--GKAADNAG 93

Taxonomy

Reports

◦ Lineage

Organism	Blast Name	Score	Number of Hits	Description
Homo sapiens	primates	26.9	141	Homo sapiens hits

◦ Organism

Description	Score	E value	Accession
Homo sapiens (human) [primates]			
immunoglobulin heavy chain junction region [Homo sapiens]	26.9	1.2	MBN4346538
collagen II alpha 1 chain, partial [Homo sapiens]	25.2	9.3	CAA40330
COL2A1, partial [Homo sapiens]	25.2	9.3	CAA34683
collagen alpha-1(II) chain isoform X4 [Homo sapiens]	25.2	9.3	XP_016874320
collagen alpha-1(II) chain isoform X4 [Homo sapiens]	25.2	9.3	XP_047284271
collagen, type II, alpha 1 (primary osteoarthritis, spondyloepiphyseal dysplasia, congenital), isoform CRA d [Homo sapiens]	25.2	9.3	EAW57969
collagen, type II, alpha 1 (primary osteoarthritis, spondyloepiphyseal dysplasia, congenital), isoform CRA b [Homo sapiens]	25.2	9.3	EAW57967
collagen type II alpha 1 chain [Homo sapiens]	25.2	9.3	KAI2565330
collagen alpha-1(II) chain isoform 2 precursor [Homo sapiens]	25.2	9.3	NP_149162
collagen type II alpha 1 chain [Homo sapiens]	25.2	9.3	KAI4065584
collagen, type II, alpha 1 (primary osteoarthritis, spondyloepiphyseal dysplasia, congenital), isoform CRA a [Homo sapiens]	25.2	9.3	EAW57966
unnamed protein product [Homo sapiens]	25.2	9.3	CAA34488

Description	Score	E value	Accession
collagen alpha-1(II) chain isoform X3 [Homo sapiens]	25.2	9.3	XP_016874319
alpha-1 type II collagen [Homo sapiens]	25.2	9.3	AAC41772
collagen type II alpha 1 chain [Homo sapiens]	25.2	9.3	KAI2565331
collagen alpha-1(II) chain isoform 1 precursor [Homo sapiens]	25.2	9.3	NP_001835
RecName: Full=Collagen alpha-1(II) chain; AltName: Full=Alpha-1 type II collagen; Contains: RecName: Full=Collagen alpha-1(II) chain; Contains: RecName: Full=Chondrocalcin; Flags: Precursor [Homo sapiens]	25.2	9.3	P02458
Collagen, type II, alpha 1 [Homo sapiens]	25.2	9.3	AAI16450
collagen type II alpha 1 chain [Homo sapiens]	25.2	9.3	KAI4065583
collagen, type II, alpha 1 (primary osteoarthritis, spondyloepiphyseal dysplasia, congenital), isoform CRA e [Homo sapiens]	25.2	9.3	EAW57970
collagen, type II, alpha 1 (primary osteoarthritis, spondyloepiphyseal dysplasia, congenital), isoform CRA c [Homo sapiens]	25.2	9.3	EAW57968
collagen alpha-1(II) chain isoform X2 [Homo sapiens]	25.2	9.3	XP_016874318
collagen alpha-1(II) chain isoform X1 [Homo sapiens]	25.2	9.3	XP_016874317
LBH domain containing 2 [Homo sapiens]	24.4	18	KAI2572907
LBH domain-containing protein 2 [Homo sapiens]	24.4	18	NP_001317165
RecName: Full=LBH domain-containing protein 2 [Homo sapiens]	24.4	18	A0A0U1RRK4
LBH domain containing 2 [Homo sapiens]	24.4	18	KAI4062529
EHBP1L1 protein, partial [Homo sapiens]	24.0	26	AAH24207
COL8A2 protein [Homo sapiens]	24.0	27	AAH96296
EH domain-binding protein 1-like protein 1 isoform X10 [Homo sapiens]	24.0	27	XP_011543188
alpha-2 type VIII collagen, partial [Homo sapiens]	24.0	27	AAA62822
collagen alpha-2(VIII) chain isoform 2 [Homo sapiens]	24.0	27	NP_001281276
collagen type VIII alpha 2, partial [Homo sapiens]	24.0	27	AGN55426
collagen type VIII alpha 2, partial [Homo sapiens]	24.0	27	AGN55427
collagen type VIII alpha 2, partial [Homo sapiens]	24.0	27	AGN55429
collagen type VIII alpha 2 chain [Homo sapiens]	24.0	27	KAI2516252
collagen type VIII alpha 2 chain [Homo sapiens]	24.0	27	KAI4079809

Description	Score	E value	Accession
collagen type VIII alpha 2, partial [Homo sapiens]	24.0	27	AGN55425
collagen type VIII alpha 2, partial [Homo sapiens]	24.0	27	AGN55430
collagen type VIII alpha 2, partial [Homo sapiens]	24.0	27	AGN55428
COL8A2 protein, partial [Homo sapiens]	24.0	27	AAH96297
COL8A2 protein, partial [Homo sapiens]	24.0	27	AAH99645
collagen alpha-2(VIII) chain isoform 1 precursor [Homo sapiens]	24.0	27	NP_005193
RecName: Full=Collagen alpha-2(VIII) chain; AltName: Full=Endothelial collagen; Flags: Precursor [Homo sapiens]	24.0	27	P25067
collagen, type VIII, alpha 2 [Homo sapiens]	24.0	27	EAX07388
collagen type VIII alpha 2 chain [Homo sapiens]	24.0	27	KAI2516250
collagen type VIII alpha 2 chain [Homo sapiens]	24.0	27	KAI2516251
collagen type VIII alpha 2 chain [Homo sapiens]	24.0	27	KAI4079807
EH domain-binding protein 1-like protein 1 isoform 2 [Homo sapiens]	24.0	27	NP_001338016
EH domain-binding protein 1-like protein 1 isoform X9 [Homo sapiens]	24.0	27	XP_005273927
EH domain-binding protein 1-like protein 1 isoform X8 [Homo sapiens]	24.0	27	XP_005273926
EH domain-binding protein 1-like protein 1 isoform X7 [Homo sapiens]	24.0	27	XP_047282661
EH domain-binding protein 1-like protein 1 isoform X6 [Homo sapiens]	24.0	27	XP_005273925
EH domain-binding protein 1-like protein 1 isoform X5 [Homo sapiens]	24.0	27	XP_005273924
FLJ00043 protein, partial [Homo sapiens]	24.0	27	BAB15741
EH domain-binding protein 1-like protein 1 isoform X3 [Homo sapiens]	24.0	27	XP_047282660
EH domain-binding protein 1-like protein 1 isoform X2 [Homo sapiens]	24.0	27	XP_016872956
EH domain-binding protein 1-like protein 1 isoform X2 [Homo sapiens]	24.0	27	XP_016872957
hCG23295 [Homo sapiens]	24.0	27	EAW74410
hypothetical protein, partial [Homo sapiens]	24.0	27	CAD39093
EH domain-binding protein 1-like protein 1 isoform 1 [Homo sapiens]	24.0	27	NP_001092879
RecName: Full=EH domain-binding protein 1-like protein 1 [Homo sapiens]	24.0	27	Q8N3D4
EH domain binding protein 1 like 1 [Homo sapiens]	24.0	27	KAI2560977

Description	Score	E value	Accession
EH domain binding protein 1 like 1 [Homo sapiens]	24.0	27	KAI4072299
EH domain-binding protein 1-like protein 1 isoform X1 [Homo sapiens]	24.0	27	XP_006718549
sorting nexin 2 [Homo sapiens]	23.5	37	KAI2538591
sorting nexin 2 [Homo sapiens]	23.5	37	KAI4022361
LOC387763 protein, partial [Homo sapiens]	23.5	37	AAH52560
sorting nexin 2, partial [Homo sapiens]	23.5	38	KAI2538590
sorting nexin 2, partial [Homo sapiens]	23.5	38	KAI4022363
RecName: Full=Uncharacterized protein C11orf96; AltName: Full=Protein Ag2 homolog [Homo sapiens]	23.5	38	Q7Z7L8
hypothetical protein G5576_005471 [Homo sapiens]	23.5	38	KAI4070852
hypothetical protein KI723_110637 [Homo sapiens]	23.5	38	KAI2559508
sorting nexin 2, isoform CRA_a [Homo sapiens]	23.5	38	EAW48883
unnamed protein product [Homo sapiens]	23.5	38	BAG51023
sorting nexin 2 [Homo sapiens]	23.5	38	AAC17181
sorting nexin-2 isoform 1 [Homo sapiens]	23.5	38	NP_003091
RecName: Full=Sorting nexin-2; AltName: Full=Transformation-related gene 9 protein; Short=TRG-9 [Homo sapiens]	23.5	38	O60749
Sorting nexin 2 [Homo sapiens]	23.5	38	AAH03382
sorting nexin 2 [Homo sapiens]	23.5	38	AAP88843
sorting nexin 2 variant, partial [Homo sapiens]	23.5	38	BAD96688
unnamed protein product [Homo sapiens]	23.5	38	BAG51219
transformation-related 9 [Homo sapiens]	23.5	38	AAQ02693
immunoglobulin heavy chain junction region [Homo sapiens]	23.1	41	MBN4296205
vitelline membrane outer layer protein 1 homolog isoform 3 precursor [Homo sapiens]	23.1	53	NP_001138412
vitelline membrane outer layer 1-like protein [Homo sapiens]	23.1	53	KAI2580731
vitelline membrane outer layer 1 homolog [Homo sapiens]	23.1	53	KAI4047243
vitelline membrane outer layer protein 1 homolog isoform 2 precursor [Homo sapiens]	23.1	53	NP_001138411
vitelline membrane outer layer 1-like protein [Homo sapiens]	23.1	53	KAI2580732

Description	Score	E value	Accession
vitelline membrane outer layer 1 homolog [Homo sapiens]	23.1	53	KAI4047244
VMO1 protein [Homo sapiens]	23.1	53	AAI04195
vitelline membrane outer layer 1 homolog (chicken), isoform CRA b [Homo sapiens]	23.1	53	EAW90411
vitelline membrane outer layer protein 1 homolog isoform 1 precursor [Homo sapiens]	23.1	53	NP_872372
RecName: Full=Vitelline membrane outer layer protein 1 homolog; Flags: Precursor [Homo sapiens]	23.1	53	Q7Z5L0
Vitelline membrane outer layer 1 homolog (chicken) [Homo sapiens]	23.1	53	AAI04196
unnamed secretory protein [Homo sapiens]	23.1	53	AAP80865
ERGA6350 [Homo sapiens]	23.1	53	AAQ89457
fibrosin-1-like protein isoform 7 [Homo sapiens]	23.1	53	NP_001369672
hCG1791601, isoform CRA b, partial [Homo sapiens]	23.1	53	EAW48611
collagen type V alpha-2 precursor, partial [Homo sapiens]	23.1	53	AAA51859
unnamed protein product [Homo sapiens]	23.1	53	BAG60252
fibrosin-1-like protein isoform 5 [Homo sapiens]	23.1	53	NP_001369670
protein ALEX-like [Homo sapiens]	23.1	53	XP_047298886
fibrosin-1-like protein isoform X16 [Homo sapiens]	23.1	53	XP_047285176
fibrosin-1-like protein isoform 4 [Homo sapiens]	23.1	53	NP_001369669
fibrosin-1-like protein isoform 2 [Homo sapiens]	23.1	54	NP_001354800
fibrosin-1-like protein isoform 3 [Homo sapiens]	23.1	54	NP_001369668
fibrosin-1-like protein isoform X14 [Homo sapiens]	23.1	54	XP_011533112
fibrosin like 1 [Homo sapiens]	23.1	54	KAI2568763
fibrosin like 1 [Homo sapiens]	23.1	54	KAI4069014
fibrosin-1-like protein isoform X13 [Homo sapiens]	23.1	54	XP_011533111
fibrosin-1-like protein isoform X12 [Homo sapiens]	23.1	54	XP_005266234
fibrosin-1-like protein isoform X11 [Homo sapiens]	23.1	54	XP_005266233
fibrosin-1-like protein isoform 1 [Homo sapiens]	23.1	54	NP_001136113

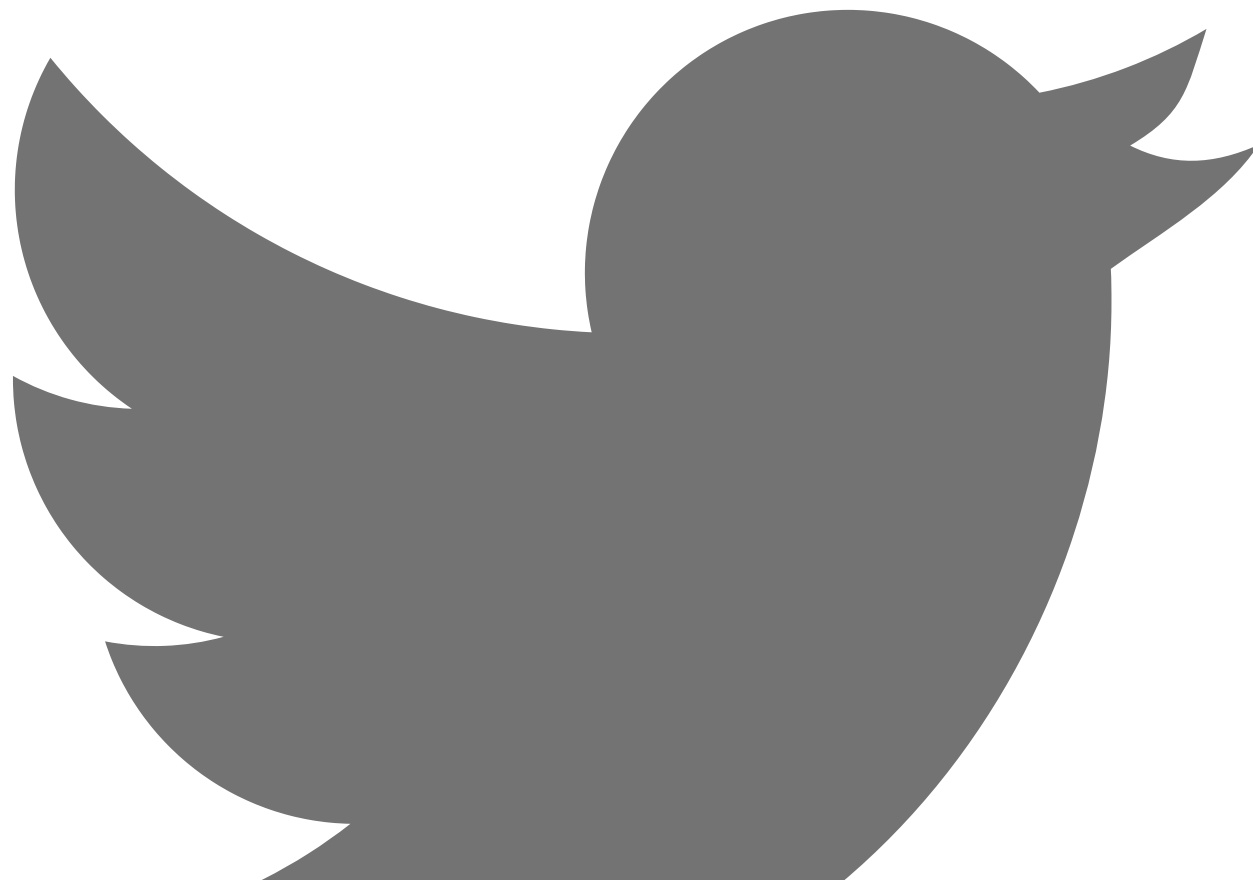
Description	Score	E value	Accession
RecName: Full=Fibrosin-1-like protein; AltName: Full=AUTS2-like protein; AltName: Full=HBV X-transactivated gene 9 protein; AltName: Full=HBV XAg-transactivated protein 9 [Homo sapiens]	23.1	54	Q9HCM7
fibrosin like 1 [Homo sapiens]	23.1	54	KAI2568764
fibrosin like 1 [Homo sapiens]	23.1	54	KAI4069013
fibrosin-1-like protein isoform X8 [Homo sapiens]	23.1	54	XP_011533110
fibrosin-1-like protein isoform X9 [Homo sapiens]	23.1	54	XP_047285175
fibrosin-1-like protein isoform X10 [Homo sapiens]	23.1	54	XP_005266232
fibrosin-1-like protein isoform X7 [Homo sapiens]	23.1	54	XP_011533109
fibrosin-1-like protein isoform X5 [Homo sapiens]	23.1	54	XP_011533107
fibrosin-1-like protein isoform X6 [Homo sapiens]	23.1	54	XP_011533108
fibrosin-1-like protein isoform X4 [Homo sapiens]	23.1	54	XP_005266230
fibrosin-1-like protein isoform X3 [Homo sapiens]	23.1	54	XP_005266228
fibrosin-1-like protein isoform X2 [Homo sapiens]	23.1	54	XP_011533106
fibrosin-1-like protein isoform X1 [Homo sapiens]	23.1	54	XP_011533105
collagen type V alpha 2 chain [Homo sapiens]	23.1	54	KAI2526102
collagen type V alpha 2 chain [Homo sapiens]	23.1	54	KAI4037255
COL5A2 protein [Homo sapiens]	23.1	54	AAH86874
type V procollagen alpha 2 chain, partial [Homo sapiens]	23.1	54	AAL13166
collagen alpha-2(V) chain isoform X1 [Homo sapiens]	23.1	54	XP_011508875
collagen alpha-2(V) chain isoform X1 [Homo sapiens]	23.1	54	XP_047299207
collagen alpha-2(V) chain isoform X1 [Homo sapiens]	23.1	54	XP_047299208
procollagen alpha 2(V) [Homo sapiens]	23.1	54	CAA75002
collagen, type V, alpha 2, isoform CRA a [Homo sapiens]	23.1	54	EAX10906
collagen alpha-2(V) chain preproprotein [Homo sapiens]	23.1	54	NP_000384
RecName: Full=Collagen alpha-2(V) chain; Flags: Precursor [Homo sapiens]	23.1	54	P05997
collagen type V alpha 2 chain [Homo sapiens]	23.1	54	KAI2526101

Description	Score	E value	Accession
collagen type V alpha 2 chain [Homo sapiens]	23.1	54	KAI4037254
alpha 2 type V collagen preproprotein variant, partial [Homo sapiens]	23.1	54	BAD92282

◦ **Taxonomy**

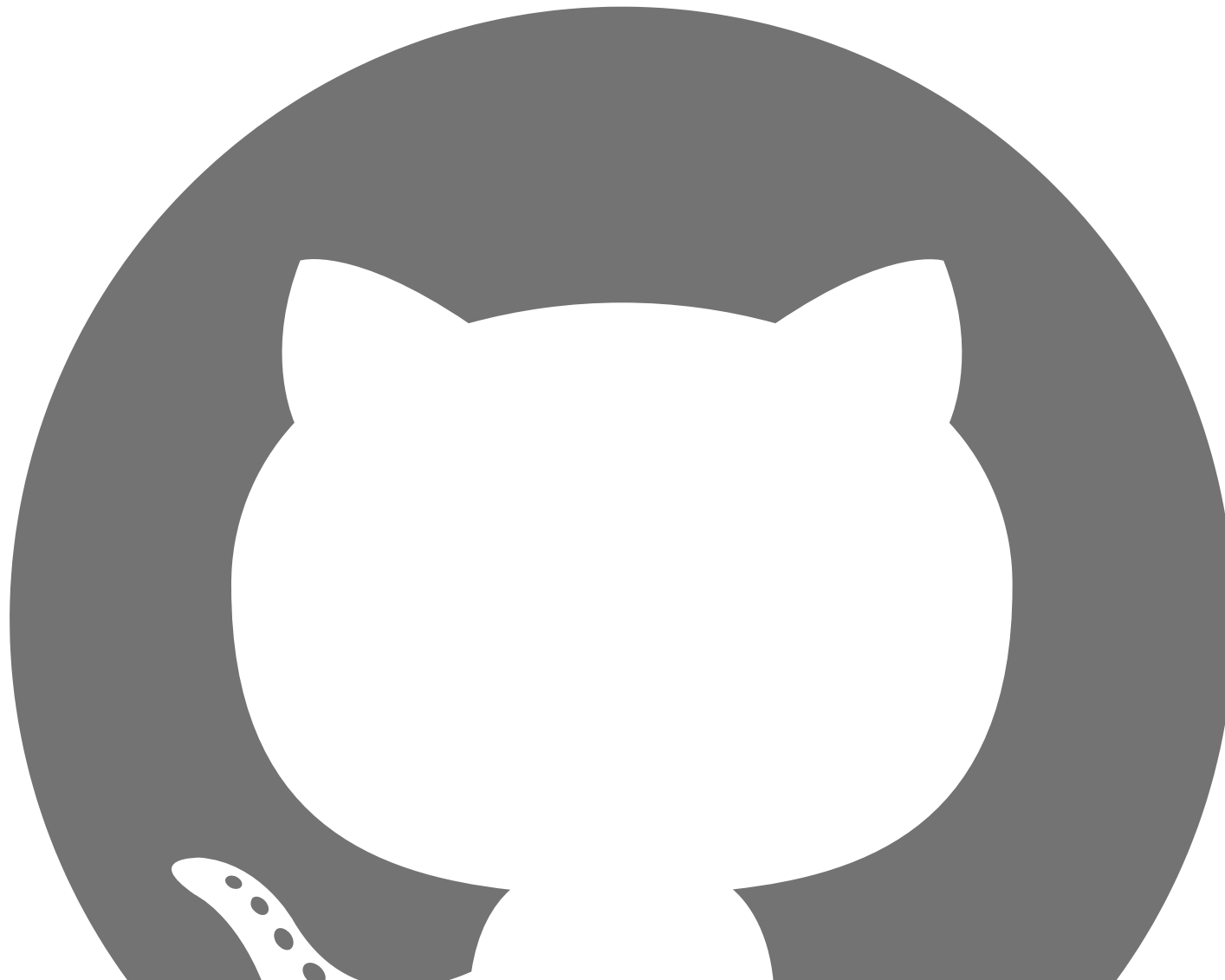
Taxonomy	Number of hits	Number of Organisms	Description
Homo sapiens	141	1	Homo sapiens hits

Follow NCBI











Connect with NLM

National Library of Medicine
8600 Rockville Pike
Bethesda, MD 20894

Web Policies
FOIA
HHS Vulnerability Disclosure

Help
Accessibility
Careers

- [NLM](#)
- [NIH](#)
- [HHS](#)
- [USA.gov](#)