

# Data Mining con BioMart

## Ensembl tools



### [Start a sequence search](#) →

Search Ensembl for nucleotide and peptide sequences with BLAST and SSAHA.



### [Mine Ensembl with BioMart](#) →

Cross-reference Ensembl datasets with BioMart, a powerful data-mining tool.



### [Customise Your Ensembl](#) →

Register with Ensembl to bookmark your favourite pages, customise your home page and much more!



### [Fetch data with the Ensembl API](#) →

Learn how to extract data from the public Ensembl database with this tutorial.

# Un cercatore di testo



# Gioielli fatto a mano

[ACCESSO](#)



Web [Immagini](#) [Gruppi](#) [News](#) [altro »](#)

gioielli fatto a mano

Cerca

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[Preferenze](#)

Web

Risultati 1 - 10 su circa 653.000 per **gioielli fatto a mano**. (0,18 secondi)

## [Donna click - Gioielli](#)

Vendita online di **gioielli** esclusivi **fatti a mano**. Una sezione è dedicata alle offerte speciali. Gold diamond Oro 18kt, pietre preziose, diamanti, **gioielli, ...**

[www.donnaclick.it/cat.php3?c=Gioielli](http://www.donnaclick.it/cat.php3?c=Gioielli) - 25k - [Copia cache](#) - [Pagine simili](#)

## [MARCOAURELIO gioielli - Laboratorio Orafo Artigianale - gioielli ...](#)

MARCOAURELIO **gioielli** - Laboratorio Orafo Artigianale - **gioielli fatti a mano** - handmade jewels.

[www.marcoaurelio.it/](http://www.marcoaurelio.it/) - 18k - [Copia cache](#) - [Pagine simili](#)

## [Vendita Gioielleria Fatti a mano Lazio Imprese](#)

Lazio imprese il primo motore di ricerca per fare affari nella regione Lazio. Fa parte del piÀ grande network italiano di portali business to business ...

[www.lazioimprese.it/](http://www.lazioimprese.it/)

[cnt\\_dett\\_shops.php~subcategory~203~Gioielleria~Fatti+a+mano+\(5\).html](#) - 26k -

[Copia cache](#) - [Pagine simili](#)

## [Gioielli fatti a mano - Arte - Canale Arte](#)

Gio-yellow è il sito di Michela Guaraglia, creatrice di splendidi **gioielli fatti a mano**.

Navigando nelle pagine del portale si potranno osservare le ...

[www.fotoexpo.net/siti-web/Arte/Gioielli-fatti-a-mano.asp](http://www.fotoexpo.net/siti-web/Arte/Gioielli-fatti-a-mano.asp) - 9k - [Copia cache](#) - [Pagine simili](#)

## [bigiotteria argento, gioielleria argento, grossisti e ingrosso ...](#)

... **fatti a mano**; **gioielli** d'argento **fatto** nel Messico; negozi di **gioielli ... gioielli fatti a mano**; **gioielli fatti** nel Messico; negozio di **gioielli** nel ...

[www.caramba.com.mx/italian/italian.html](http://www.caramba.com.mx/italian/italian.html) - 11k - [Copia cache](#) - [Pagine simili](#)

## [Paffio Links\\_05](#)

Splendido sito di Gadget interamente **fatti a mano**. In questo sito, oltre ai Gadget, troverete anche varie sezioni sui manga Bellissimi **gioielli fatti a mano ...**

# Gioielli fatto a mano, contatti, indirizzo, numero

[Accesso](#)



Web Immagini Gruppi News altro »

gioielli fatto a mano contatti indirizzo numero

Cerca

[Ricerca avanzata](#)  
[Preferenze](#)

## Web

Risultati 1 - 10 su circa 301.000 per **gioielli fatto a mano contatti indirizzo numero**. (0,18 secondi)

### [Excite UK - World - Italiano - Affari - Beni e Servizi di Consumo ...](#)

Modelli **fatti a mano** di sartoria e prêt a porter. [www.fashioncinque.com](#) (sponsored link) ...  
Propone il catalogo, l'**indirizzo** e il **numero** telefonico. ...

[www.excite.co.uk/directory/World/Italiano/](#)

[Affari/Beni\\_e\\_Servizi\\_di\\_Consumo/Antiquariato\\_e\\_Collezionismo](#) - 38k -

[Copia cache](#) - [Pagine simili](#)

### [Settimana dal 20 al 26 giugno](#)

MADE IN ITALY: CONFESERCENTI ROMA, UN MARCHIO PER I **GIOIELLI FATTI A MANO**.  
Roma, 23 giu. (Adnkronos) - Si chiama 'Oro di Roma' ed e' un nuovo marchio per ...

[www.adnkronos.com/Speciali/P\\_Mi/lt/25.html](#) - 34k - [Copia cache](#) - [Pagine simili](#)

### [Ha annunciato l'aggancio, le nozze, anelli di Eternity - dal ...](#)

Metterseli in **contatto** con oggi per prenotare la vostra consultazione LIBERA di ... gli anelli di  
aggancio insoliti, **la mano** - anelli **fatti, fatti a mano**, ...

[www.danielprince.co.uk/italian.php?u=/Terms\\_and\\_Conditions.html](#) - 51k -

[Copia cache](#) - [Pagine simili](#)

### [Destino \(2^ parte\)](#)

Deve essere stato realizzato da un vero artista del settore, ed ha la tipica impronta dei **gioielli fatti a mano**. Guarda i petali del fiore, sembrano quasi ...

[www.dadamag.it/default.asp?scheda=550](#) - 38k - [Copia cache](#) - [Pagine simili](#)

### [KAMASWAMI - eShop di ARTE, DESIGN e ARTIGIANATO](#)

La politica commerciale di Kamaswami è quella di offrire prodotti originali, particolari, tutti  
accomunati dalla caratteristica di essere "**fatti a mano** in ...

[www.kamaswami.com/arts-crafts-design-shop/faq.php?help=2](#) - 47k -

[Copia cache](#) - [Pagine simili](#)

### [Gioielli ed Orologi: Produzione e commercializzazione di orologi e ...](#)

# BioMart- Data mining

- BioMart è un programma che fa una tabella dei dati nel database di Ensembl (e altri database).
- Non è necessario di sapere il 'programming'!
- Si può scegliere le colonne: come sequenze, 'homologues', IDs nei altri database.

# Che cosa posso ottenere con BioMart?

Generale o specifico?

- Tutti i geni Ensembl per una specie.
- O... geni in una regione specifica del genoma.
- O... geni che hanno un'affiliazione con una malattia

# Che cosa posso sapere di questi geni?

- ID in altri database
- Descrizioni e numeri d'Interpro domains'
- Termini GO (Gene Ontology)
- Posizioni sulla cromosoma
- Sequenze
- Homology

# Anche si trova...

- Geni di Vega
- Variazioni
- 'Markers'
- Affimetrix chip IDs



# Sito Web e l'Interface



HOME

DOCS

NEWS

CONTACT

CREDITS

MARTVIEW

New XML Help Count Results

» **Dataset:**

Homo sapiens genes (NCBI36)

» **Attributes (Features)**

Ensembl Gene ID

Ensembl Transcript ID

» **Filters**

[None selected]

» **Dataset:**

[None Selected]

Database:

ENSEMBL 42 GENE (SANGER)

Homo sapiens genes (NCBI36)

Scegli Geni  
Ensembl  
oppure  
variazioni o  
homology.

Scegli la  
specie

biomart version 0.5

La prima pagina di BioMart.

# Information Flow

- Scegli la specie (la prima pagina: **Dataset**)
- Che cosa volete sapere dei geni?  
(la seconda pagina: **Attributes**)  
(*Sequenze, ID, descrizioni...*)
- Quali geni?  
(la terza pagina: **Filters**.  
(*ID specifici, geni di una regione genomica...*)

# Web 'Interface'

The image shows a screenshot of the bioMart web interface. At the top left is the bioMart logo. A navigation bar contains links for HOME, DOCS, CREDITS, and MARTVIEW. Below this is a black header with the text 'New XML He'. The main content area is divided into sections. On the left, there is a yellow sidebar with a tree view containing '» Dataset: Homo sapiens genes (NCBI36)', '» Attributes (Features): Ensembl Gene ID, Ensembl Transcript ID', and '» Filters: [None selected]'. On the right, there are two dropdown menus: 'Database: ENSEMBL 42 GENE (SANGER)' and 'Homo sapiens genes (NCBI36)'. Three blue callout boxes with black text point to these sections: 'Prima pagina: Dataset' points to the Dataset section, 'Seconda pagina: Attributes' points to the Attributes section, and 'Terza pagina: Filters' points to the Filters section. At the bottom left, a black footer contains the text 'biomart version 0.5'.

Tre pagine maggiori: Dataset, Attributes e Filters.

# Primo: scegli il 'Dataset'



HOME

DOCS

NEWS

CONTACT

CREDITS

MARTVIEW

New XML Help Count Results

» **Dataset:**

Homo sapiens genes (NCBI36)

» **Attributes** (Features)

Ensembl Gene ID

Ensembl Transcript ID

» **Filters**

[None selected]

» **Dataset:**

[None Selected]

Database: ENSEMBL 42 GENE (SANGER)

Dataset: Homo sapiens genes (NCBI36)

Choose a **Dataset** above, then use the left panel to navigate through the **Attributes** and **Filters** making your selections in this main panel. To preview the results click the **Results** button in the top panel.

[Tutorial](#)

Per esempio  
i geni  
*Homo sapiens*

# Secondo: Attributes



HOME

DOCS

NEWS

CONTACT

CREDITS

MARTVIEW

New XML Help Count Results

Quattro scelte.

» Dataset:

Homo sapiens genes (NCBI36)

» **Attributes** (Features)

Ensembl Gene ID

Ensembl Transcript ID

» Filters

[None selected]

» Dataset:

[None Selected]

Features  SNPs  
 Structures  Sequences

▣ REGION:

**Chromosome Attributes**

Chromosome Name

Strand

Start Position (bp)

Band

End Position (bp)

▣ GENE:

▣ EXPRESSION:

▣ PROTEIN:

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Che cosa volete sapere dei geni?

# La pagina 'SNP'



HOME

DOCS

NEWS

CONTACT

CREDITS

MARTVIEW

New XML Help Count Results

» **Dataset:**

Homo sapiens genes (NCBI36)

» **Attributes** (SNPs)

Ensembl Gene ID

Ensembl Transcript ID

» **Filters**

[None selected]

» **Dataset:**

[None Selected]

- Features  **SNPs**  Structures  Sequences

REGION:

GENE:

GENE ASSOCIATED SNPS:

**SNP Attributes**

- |                                       |                                            |
|---------------------------------------|--------------------------------------------|
| <input type="checkbox"/> Reference ID | <input type="checkbox"/> Validation status |
| <input type="checkbox"/> Allele       | <input type="checkbox"/> Mapweight         |
| <input type="checkbox"/> TSC ID       | <input type="checkbox"/> fpctg name        |
| <input type="checkbox"/> HGBASE ID    |                                            |

**SNP Location Attributes**

- |                                                   |                                                   |
|---------------------------------------------------|---------------------------------------------------|
| <input type="checkbox"/> Transcript location (bp) | <input type="checkbox"/> Peptide location (aa)    |
| <input type="checkbox"/> SNP Chromosome Strand    | <input type="checkbox"/> Chromosome Location (bp) |

**Gene Location and Effect**

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L'informazione delle variazioni come 'ID' e 'alleli'.

# La scelta dei geni con 'Filters'



HOME

DOCS

NEWS

CONTACT

CREDITS

MARTVIEW

New XML Help Count Results

» **Dataset:**

Homo sapiens genes (NCBI36)

» **Attributes** (Sequences)

Peptide

Chromosome

Ensembl Gene ID

Biotype

» **Filters**

[None selected]

» **Dataset:**

[None Selected]

REGION:

GENE:

GENE ONTOLOGY:

EXPRESSION:

PROTEIN:

SNP:

biomart version 0.5

Scegli un assemblaggio dei geni con 'Filters'.

# I risultati: Sequenze o Tabella

[HOME](#)[DOCS](#)[NEWS](#)[CONTACT](#)[CREDITS](#)[MARTVIEW](#)

New XML Help Count Results

» **Dataset:**

Homo sapiens genes (NCBI36)

» **Attributes** (Sequences)

Peptide

Chromosome

Ensembl Gene ID

Biotype

» **Filters**

[None selected]

» **Dataset:**

[None Selected]

Display maximum

10

rows as

FASTA

Export all results to

File

Go

```
>21|ENSG00000186967|protein_coding
MSYYGSIYGGGLGYGCCGGFGLGYGYGCCGCSFRRLGSGCGYGGYGYSGFGGYYGYSGFG
GYGYGCYRPSYGGYGFSGFY*
>21|ENSG00000155304|protein_coding
MAREMTILGSAVLTLLLAGYLAQQYLPLPTPKVIGIDLGTITYCSVGVFFPGTGKVKVIPD
ENGHISIPSMVSFTDNDVYVGYE SVELADSNPQNTIYDAKRFIGKIF TAELEAE IGRYP
FKVLNKNMGVFEFSVTSNETITVSP EYVGSRLLLKLEMAEAYLGMPVANAVISVPAEFDL
```

KQRNS  
GMFLT  
LHQSA  
FETEI  
FFGKD  
>21|E  
MDLLH  
ISWTM  
-----

Ensembl Gene ID	Ensembl Transcript ID	Description
<a href="#">ENSG00000206668</a>	<a href="#">ENST00000383941</a>	Y RNA [Source:RFAM;Acc:RF00019]
<a href="#">ENSG00000206789</a>	<a href="#">ENST00000384062</a>	5S ribosomal RNA [Source:RFAM;Acc:RF00001]
<a href="#">ENSG00000207376</a>	<a href="#">ENST00000384646</a>	7SK RNA [Source:RFAM;Acc:RF00100]
<a href="#">ENSG00000195216</a>	<a href="#">ENST00000352275</a>	Small nucleolar RNA U70 [Source:RFAM;Acc:RF00156]
<a href="#">ENSG00000194751</a>	<a href="#">ENST00000353862</a>	Small subunit ribosomal RNA, 5' domain [Source:RFAM;Acc:RF00001]
<a href="#">ENSG00000206750</a>	<a href="#">ENST00000384023</a>	Y RNA [Source:RFAM;Acc:RF00019]
<a href="#">ENSG00000207372</a>	<a href="#">ENST00000384642</a>	U2 spliceosomal RNA [Source:RFAM;Acc:RF00004]
<a href="#">ENSG00000206986</a>	<a href="#">ENST00000384259</a>	U6 spliceosomal RNA [Source:RFAM;Acc:RF00026]
<a href="#">ENSG00000206894</a>	<a href="#">ENST00000384167</a>	5S ribosomal RNA [Source:RFAM;Acc:RF00001]
<a href="#">ENSG00000206860</a>	<a href="#">ENST00000384133</a>	Eukaryotic type signal recognition particle RNA [Source:RFAM;Acc:RF00001]

biomart version 0.5



# Un' Esempio Breve



HOME

DOCS

NEWS

CONTACT

CREDITS

MARTVIEW

New XML Help Count Results

» **Dataset:**

Homo sapiens genes (NCBI36)

» **Attributes** (Features)

Ensembl Gene ID

Ensembl Transcript ID

» **Filters**

[None selected]

» **Dataset:**

[None Selected]

Database:

ENSEMBL 42 GENE (SANGER)

Dataset:

Homo sapiens genes (NCBI36)

Choose a **Dataset** above, then use the left panel to navigate through the **Attributes** and **Filters** making your selections in this main panel. To preview the results click the **Results** button in the top panel.

[Tutorial](#)

Cambiamo il  
'Dataset' a  
*Gallus gallus*

# Un' Esempio Breve

The screenshot shows the bioMart web interface. At the top left is the bioMart logo. Below it is a navigation bar with buttons for HOME, DOCS, NEWS, CONTACT, CREDITS, and MARTVIEW. A black bar below the navigation bar contains the text "New XML Help Count Results". The main content area is divided into two panels. The left panel is yellow and contains a tree view of datasets and attributes. The "Dataset:" section is circled in blue and shows "Gallus gallus genes (WASHUC1)" selected. Below it are "Attributes (Features)" including "Ensembl Gene ID" and "Ensembl Transcript ID", and "Filters" with "[None selected]". The right panel is white and contains two dropdown menus. The "Database:" dropdown is set to "ENSEMBL 42 GENE (SANGER)" and the "Dataset:" dropdown is set to "Gallus gallus genes (WASHUC1)". Below the dropdowns is a paragraph of instructions: "Choose a **Dataset** above, then use the left panel to navigate through the **Attributes** and **Filters** making your selections in this main panel. To preview the results click the **Results** button in the top panel." Below the instructions is a link for "Tutorial". At the bottom left of the interface is the text "biomart version 0.5".

bioMart

HOME DOCS NEWS CONTACT CREDITS MARTVIEW

New XML Help Count Results

» **Dataset:**  
Gallus gallus genes (WASHUC1)  
» **Attributes (Features)**  
Ensembl Gene ID  
Ensembl Transcript ID  
» **Filters**  
[None selected]

» **Dataset:**  
[None Selected]

Database: ENSEMBL 42 GENE (SANGER)

Dataset: Gallus gallus genes (WASHUC1)

Choose a **Dataset** above, then use the left panel to navigate through the **Attributes** and **Filters** making your selections in this main panel. To preview the results click the **Results** button in the top panel.

[Tutorial](#)

biomart version 0.5

I geni Ensembl del gallo sono scelti.

# Attributes (Opzioni per I Risultati)

New XML Results

**'Click' Attributes**

» Dataset:  
Gallus gallus  
» Attributes (Features)  
Ensembl Gene ID  
Ensembl Transcript ID  
» Filters  
[None selected]

» Dataset:  
[None Selected]

Features  SNPs  
 Structures  Sequences

REGION: **'Click' 'PROTEIN'**  
 GENE:  
 PROTEIN:

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Scegliamo la pagina 'Features' di Attributes (ricordate che abbiamo 4 opzioni).

# Attributes (Opzioni per I Risultati)



HOME DOCS NEWS CONTACT CREDITS MARTVIEW

New XML Help Count Results

» Dataset:  
Gallus gallus genes (WASHUC1)  
» Attributes (Features)  
Ensembl Gene  
Ensembl Trans  
Family Description  
Interpro Short D  
» Filters  
[None selected]

» Datas  
[None]

» Features  
○ Structure  
▣ REGION:  
▣ GENE:  
▣ PROTEIN:  
Family Attributes  
 Family Description  Ensembl Family ID  
Domain Attributes (max 1)  
 Prosite ID  PFAM ID  
 PRINTS ID  
Interpro Attributes  
 Interpro Short Description  Interpro ID  
 Interpro Description

**Scegliamo 'Family Description'**

**Scegliamo 'Interpro Short Description'**

**Le selezioni 'PROTEIN' sono visibili**

biomart version 0.5

**Attaccare l'informazione ai geni del gallo.**

# Non Vorremo Tutti I Geni Galli

bio:mart

HOME DOCS NEWS CONTACT CREDIT

New XML Help Count Results

» **Dataset:**  
Gallus gallus genes (WASHUC1)

» **Attributes (Features)**  
Ensembl Genes  
Ensembl Transcripts  
Family Description  
Interpro Signatures

» **Filters**  
[None selected]

» **Dataset:**  
[None Selected]

REGION:  
GENE:  
GENE ONTOLOGY:  
PROTEIN:  
SNP:

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Scegliamo  
'Filters'

'Click'  
'REGION'

Scegliamo solamente i geni sul cromosoma 20.

# Scegliamo i geni sul cromosoma 20

» **Dataset:**

Gallus gallus genes (WASHUC1)

» **Attributes** (Features)

Ensembl Gene ID

Ensembl Gene

Family

InterPro

» **Filters**

Chromosome: 20

Click 'Results'

» **Dataset:**

[None Selected]

L'opzioni di 'REGION'

Scegliamo 'cromosoma 20'

REGION:

Chromosome

20

Base pair

Start

1

End

10000000

Marker

Start

End

GENE:

GENE ONTOLOGY:

PROTEIN:

# La Tabella dei Risultati

» **Dataset:**  
Gallus gallus genes (WASHUC1)  
» **Attributes (Features)**  
Ensembl Gene ID  
Ensembl Transcript ID  
Family Description  
Interpro Short Description  
» **Filters**  
Chromosome: 20

» **Dataset:**  
[None Selected]

Export results to

Ensembl Gene ID	Ensembl Transcript ID	Family Description
<a href="#">ENSGALG00000000974</a>	<a href="#">ENSGALT00000001439</a>	LEUKOCYTE IMMUNOGLOBULIN RECEPTOR SUBFAMILY MEMBER
<a href="#">ENSGALG00000000983</a>	<a href="#">ENSGALT00000001453</a>	LETHAL 3 MALIGNANT BRAIN TUMOR L 3 MBT 3 H L 3 MBT
<a href="#">ENSGALG00000000983</a>	<a href="#">ENSGALT00000001453</a>	LETHAL 3 MALIGNANT BRAIN TUMOR L 3 MBT 3 H L 3 MBT
<a href="#">ENSGALG00000000983</a>	<a href="#">ENSGALT00000001453</a>	LETHAL 3 MALIGNANT BRAIN TUMOR L 3 MBT 3 H L 3 MBT
<a href="#">ENSGALG00000000990</a>	<a href="#">ENSGALT00000001462</a>	SPLICING FACTOR ARGININE/SERINE RICH
<a href="#">ENSGALG00000000990</a>	<a href="#">ENSGALT00000001462</a>	SPLICING FACTOR ARGININE/SERINE RICH
<a href="#">ENSGALG00000001026</a>	<a href="#">ENSGALT00000001517</a>	BAND 4 1
<a href="#">ENSGALG00000001026</a>	<a href="#">ENSGALT00000001517</a>	BAND 4 1
<a href="#">ENSGALG00000001026</a>	<a href="#">ENSGALT00000001517</a>	BAND 4 1
<a href="#">ENSGALG00000001026</a>	<a href="#">ENSGALT00000001517</a>	BAND 4 1

Una tabella dei geni della cromosoma 20.  
Selezioni della pagina 'Attribute':  
Gene ID, Transcript ID, Family Description.

# La Tabella dei Risultati

Gene ID

Transcript ID

Family Description

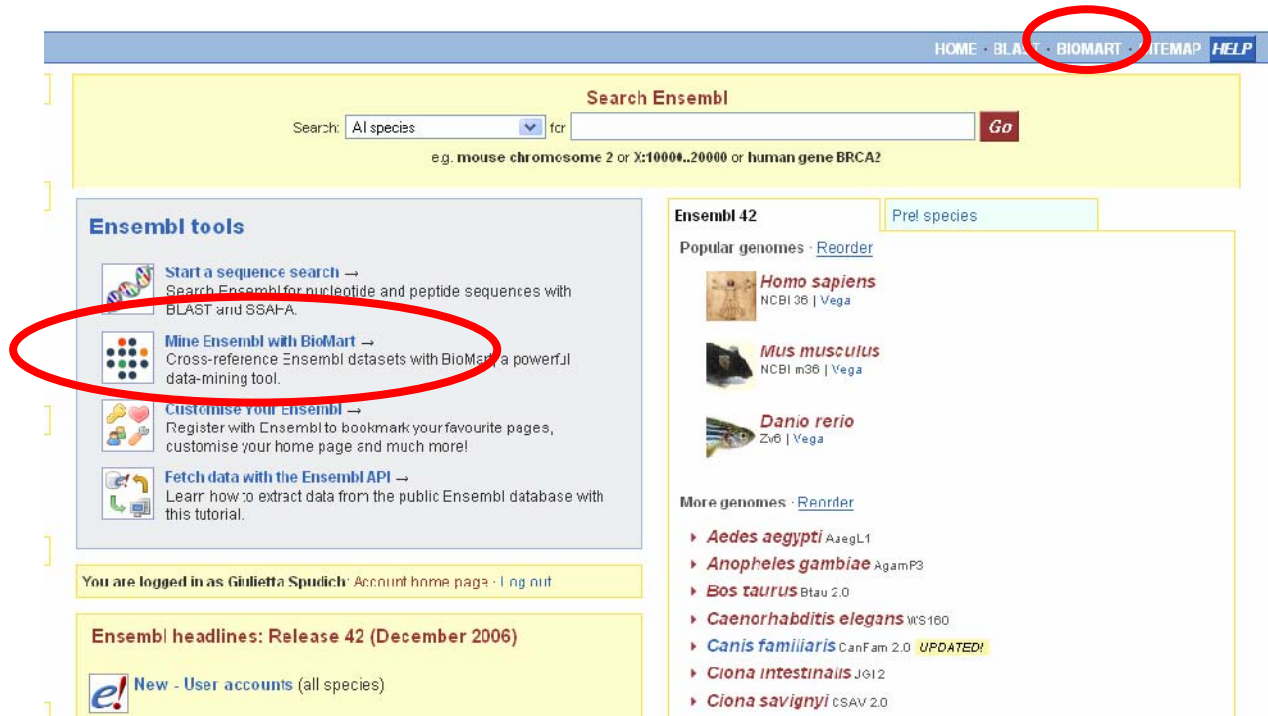
Interpro Description

Ensembl Gene ID	Ensembl Transcript ID		Interpro Short Description
<a href="#">ENSGALG00000000974</a>	<a href="#">ENSGALT00000001439</a>	LEUKOCYTE IMMUNOGLOBULIN RECEPTOR SUBFAMILY MEMBER PRECURSOR IMMUNOGLOBULIN	Ig-like
<a href="#">ENSGALG00000000983</a>	<a href="#">ENSGALT00000001453</a>	LETHAL 3 MALIGNANT BRAIN TUMOR L 3 MBT 3 H L 3 MBT	Mbt
<a href="#">ENSGALG00000000983</a>	<a href="#">ENSGALT00000001453</a>	LETHAL 3 MALIGNANT BRAIN TUMOR L 3 MBT 3 H L 3 MBT	Znf_C2HC
<a href="#">ENSGALG00000000983</a>	<a href="#">ENSGALT00000001453</a>	LETHAL 3 MALIGNANT BRAIN TUMOR L 3 MBT 3 H L 3 MBT	SAM
<a href="#">ENSGALG00000000990</a>	<a href="#">ENSGALT00000001462</a>	SPLICING FACTOR ARGININE/SERINE RICH	EDG3_rcpt
<a href="#">ENSGALG00000000990</a>	<a href="#">ENSGALT00000001462</a>	SPLICING FACTOR ARGININE/SERINE RICH	RNP1_RNA_bd
<a href="#">ENSGALG00000001026</a>	<a href="#">ENSGALT00000001517</a>	BAND 4 1	Band_4.1
<a href="#">ENSGALG00000001026</a>	<a href="#">ENSGALT00000001517</a>	BAND 4 1	Ez/rad/moesin
<a href="#">ENSGALG00000001026</a>	<a href="#">ENSGALT00000001517</a>	BAND 4 1	SAB
<a href="#">ENSGALG00000001026</a>	<a href="#">ENSGALT00000001517</a>	BAND 4 1	4_1_CTD
<a href="#">ENSGALG00000001026</a>	<a href="#">ENSGALT00000023829</a>	BAND 4 1	Band_4.1
<a href="#">ENSGALG00000001026</a>	<a href="#">ENSGALT00000023829</a>	BAND 4 1	Ez/rad/moesin
<a href="#">ENSGALG00000001026</a>	<a href="#">ENSGALT00000023829</a>	BAND 4 1	SAB
<a href="#">ENSGALG00000001026</a>	<a href="#">ENSGALT00000023829</a>	BAND 4 1	4_1_CTD
<a href="#">ENSGALG00000001034</a>	<a href="#">ENSGALT00000001532</a>	UNKNOWN	AAR2
<a href="#">ENSGALG00000001034</a>	<a href="#">ENSGALT00000040660</a>	UNKNOWN	AAR2
<a href="#">ENSGALG00000001046</a>	<a href="#">ENSGALT00000001567</a>	DISKS LARGE ASSOCIATED DAP SAP90/PSD 95 ASSOCIATED PSD 95/SAP90 BINDING	GKAP
<a href="#">ENSGALG00000024081</a>	<a href="#">ENSGALT00000030938</a>	HOMEBOX TGIF2LX TGFB INDUCED FACTOR 2 PROTEIN X LINKED TGF BETA INDUCED TRANSCRIPTION FACTO	
<a href="#">ENSGALG00000001050</a>	<a href="#">ENSGALT00000034774</a>	MYOSIN REGULATORY LIGHT CHAIN	EF_hand_Ca_bd
<a href="#">ENSGALG00000001050</a>	<a href="#">ENSGALT00000001572</a>	MYOSIN REGULATORY LIGHT CHAIN	EF_hand_Ca_bd
<a href="#">ENSGALG00000001054</a>	<a href="#">ENSGALT00000001580</a>	UNCHARACTERIZED	Rab5ip
<a href="#">ENSGALG00000001062</a>	<a href="#">ENSGALT00000001589</a>	GAMMA GLUTAMYLTRANSFERASE PRECURSOR EC_2.3.2.2 GAMMA GAMMA [CONTAINS: GAMMA GLUTAMYLTRANSFE	GGT_peptidase
<a href="#">ENSGALG00000001182</a>	<a href="#">ENSGALT00000001793</a>	NUCLEAR RECEPTOR COACTIVATOR 6 AMPLIFIED IN BREAST CANCER 3 CANCER AMPLIFIED TRANSCRIPTIONAL	PRO_rich
<a href="#">ENSGALG00000001209</a>	<a href="#">ENSGALT000000034767</a>	TUMOR P53 INDUCIBLE NUCLEAR 1 P53 DEPENDENT DAMAGE INDUCIBLE NUCLEAR 1 P53DINP1 STRESS INDUC	
<a href="#">ENSGALG00000001209</a>	<a href="#">ENSGALT00000001836</a>	TUMOR P53 INDUCIBLE NUCLEAR 1 P53 DEPENDENT DAMAGE INDUCIBLE NUCLEAR 1 P53DINP1 STRESS INDUC	
<a href="#">ENSGALG00000001219</a>	<a href="#">ENSGALT00000001850</a>	GPI TRANSAMIDASE COMPONENT PIG U PHOSPHATIDYLINOSITOL GLYCAN BIOSYNTHESIS CLASS U CELL DIVIS	PIG-II ...



# Come si Trova BioMart

- [www.biomart.org/martview](http://www.biomart.org/martview)
- Oppure 'click' 'BioMart' sul sito Ensembl



The screenshot shows the Ensembl website interface. At the top right, the navigation menu includes 'HOME', 'BLAST', 'BIOMART', 'TEMAP', and 'HELP'. The 'BIOMART' link is circled in red. Below the navigation bar is a search bar with the text 'Search Ensembl' and a search input field containing 'All species'. Below the search bar, there are several sections: 'Ensembl tools' with links for 'Start a sequence search', 'Mine Ensembl with BioMart' (circled in red), 'Customise your Ensembl', and 'Fetch data with the Ensembl API'; 'Ensembl 42' with a 'Prel species' dropdown and a list of popular genomes including 'Homo sapiens', 'Mus musculus', and 'Danio rerio'; and 'More genomes' with a 'Reorder' link and a list of other species like 'Aedes aegypti', 'Anopheles gambiae', etc. At the bottom, there is a login status 'You are logged in as Giulietta Spudich' and 'Ensembl headlines: Release 42 (December 2006)'.

# Insomma...

- BioMart è utile per prendere l'informazione dal database Ensembl
- Tre Pagine: I fasi 'Dataset', 'Attributes' and 'Filter'
- Esplorate le opzioni con gli esercizi nel documento!

# Gruppo BioMart

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