How to find accession codes for your homologs via Ensemble

Ways to find Uniprot or NCBI codes

Gene-based displays
- Summary
- Splice variants
- Transcript comparison
- Supporting evidence
- Gene alleles
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  - Secondary Structure
- External references
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  - Gene expression
  - Personal annotation
- ID History
  - Gene history

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Gene: bcar1 ENSAMXG00000020472

Description breast cancer anti-estrogen resistance 1 [Source:ZFIN;Acc:ZDB-GENE-030131-2774]

Synonyms wu:fc17f11, fc17f11, zgc:175192

Location Scaffold KB882212.1: 627,961-644,263 reverse strand.

About this gene This gene has 1 transcript (splice variant), 60 orthologues, 3 paralogues and is a member of 1 Ensembl protein family.

Transcripts Hide transcript table

Show/hide columns (1 hidden) Filter

Name	Transcript ID	bp	Protein	Biotype	UniProt	Flags
bcar1-201	ENSAMXT00000021078	4334	658aa	Protein coding	W5LML6	

Orthologues

Summary of orthologues of this gene

Click on 'Show details' to display the orthologues for one or more groups of species. Alternatively, click on 'Configure this page' to choose a custom list of species.

Species set	Show details	With 1:1 orthologues	Wit
Primates (*12 species*) Humans and other primates	☐	11	
Rodents (*8 species*) Rodents, rabbits and related species	☐	7	
Laurasiatheria (*14 species*) Carnivores, ungulates and insectivores	☐	12	
Placental Mammals (*39 species*) All placental mammals	☐	34	
Sauropsida (*7 species*) Birds and Reptiles	☐	4	
Fish (*10 species*) Ray-finned fishes	☐	9	
All (*68 species*) All species, including invertebrates	☐	51	

Selected orthologues Click this link depending on the ortholog you want

Show All entries Show/hide columns

Species	Type	WGA	Gene identifier & gene name	Compare
Amazon molly (*Poecilia formosa*)	1-to-1	n/a	ENSPFOG00000006059 bcar1 breast cancer anti-estrogen resistance 1 [Source:ZFIN;Acc:ZDB-GENE-030131-2774]	Region Comparison; Alignment (protein); Alignment (cDNA); Gene Tree (image)
Armadillo (*Dasypus novemcinctus*)	1-to-1	n/a	ENSDNOG00000039184 BCAR1 breast cancer anti-estrogen resistance 1 [Source:HGNC Symbol;Acc:HGNC:971]	Region Comparison; Alignment (protein); Alignment (cDNA); Gene Tree (image)
Bushbaby (*Otolemur garnettii*)	1-to-1	n/a	ENSOGAG00000033984 BCAR1 breast cancer anti-estrogen resistance 1 [Source:HGNC Symbol;Acc:HGNC:971]	Region Comparison; Alignment (protein); Alignment (cDNA); Gene Tree (image)
Cat (*Felis catus*)	1-to-1	n/a	ENSFCAG00000015361 BCAR1 breast cancer anti-estrogen resistance 1 [Source:HGNC Symbol;Acc:HGNC:971]	Region Comparison; Alignment (protein); Alignment (cDNA); Gene Tree (image)
Chicken (*Gallus gallus*)	1-to-1	n/a	ENSGALG00000028291 BCAR1 breast cancer anti-estrogen resistance 1 [Source:HGNC Symbol;Acc:HGNC:971]	Region Comparison; Alignment (protein); Alignment (cDNA); Gene Tree (image)
Chimpanzee (*Pan troglodytes*)	1-to-1	n/a	ENSPTRG00000008357 BCAR1	Region Comparison; Alignment (protein); Alignment (cDNA)

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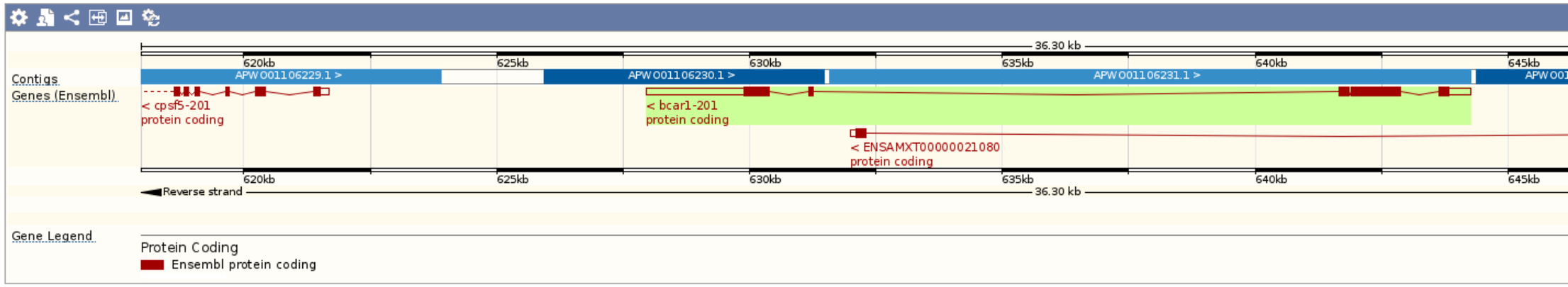
Description	breast cancer anti-estrogen resistance 1 [Source:ZFIN;Acc:ZDB-GENE-030131-2774]
Synonyms	wu:fc17f11, fc17f11, zgc:175192
Location	Scaffold KB882212.1: 627,961-644,263 reverse strand.
About this gene	This gene has 1 transcript (splice variant), 60 orthologues, 3 paralogues and is a member of 1 Ensembl protein family.
Transcripts	Show transcript table

Summary

Name	bcar1 (Projected ZFIN)
Ensembl version	ENSAMXG00000020472.1
Gene type	Known by_projection protein_coding
Annotation method	Annotation produced by the Ensembl genebuild.

Go to Region in Detail for more tracks and navigation options (e.g. zooming)



Configuring the display

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Transcripts Hide transcript table

Show/hide columns (1 hidden) Filter

Name	Transcript ID	bp	Protein	Biotype	UniProt	Flags
bcar1-201	ENSAMXT00000021078	4334	658aa	Protein coding	W5LML6	

Summary

Name bcar1 (Projected ZFIN)

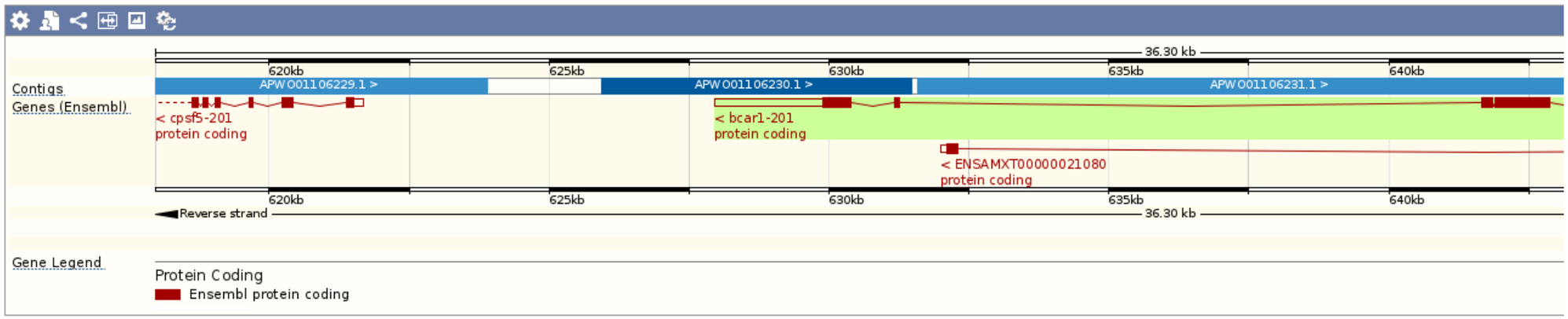
Ensembl version ENSAMXG00000020472.1

Gene type Known by_projection protein_coding

Annotation method Annotation produced by the Ensembl genebuild.

W5ML6-This is a protein accession code CLICK

Go to Region in Detail for more tracks and navigation options (e.g. zooming)



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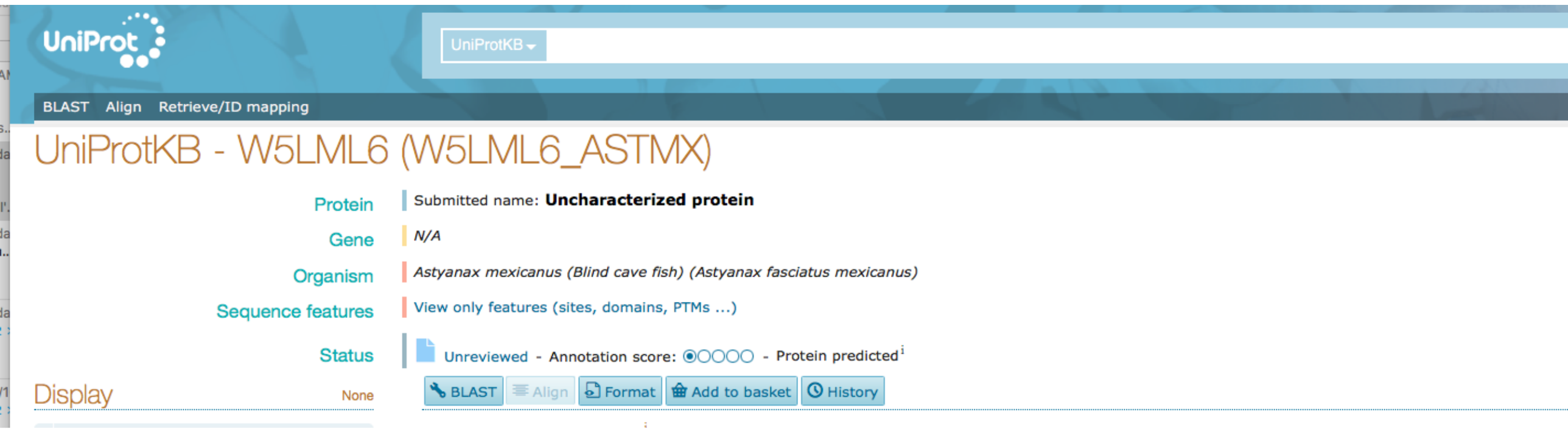

this will be at the top of your page then scroll down-

see next slide

Display None

- Function
- Names & Taxonomy
- Subcellular location
- Pathology & Biotech
- PTM / Processing
- Expression
- Interaction
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- Family & Domains
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- Publications
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OMA[i] EITEEGW.

Family and domain databases

InterPro[i] IPR021901. CAS_DUF3513.
IPR014928. Serine_rich.
[Graphical view]

Pfam[i] PF12026. DUF3513. 1 hit.
PF08824. Serine_rich. 1 hit.
[Graphical view]

This is how you get your FASTA

Sequence[i]

Sequence status[i]: Complete.

W5LML6-1 [UniParc] FASTA Add to basket
« Hide

Length
Mass (Da)
Last modified
Checksum:

BLAST

```
        10         20         30         40         50
MCVCVSVCVS VCQCVLVWFY PASDSASIRL PQVYDTPPMA MKGPTSRDAQ
        60         70         80         90        100
EIYDTPPSVD KNQLLSQQTV YDFPPSVSKD VPDGLIRDET YDVPPHFAKM
       110        120        130        140        150
KCLDSQIEAG SEPPIPEDVY DVPPPPLAGK PLPEAQEIYD IPTSLRKTGP
       160        170        180        190        200
QDQHPADVYD FPRERPAMAE ESGDYVYDVP PQVVRDAAAT EELTVSFKRL
       210        220        230        240        250
SASSTGSTRS NLSTSSLDMV PVRDSTGPGR LLSLDLEQAM ERLSRLQQAV
       260        270        280        290        300
ESSASLLMSF ISGNWRSPVQ MESNLPSIRQ AAERLRAAVR DLLEFARGAV
       310        320        330        340        350
ANAAQATDRT LQAKLNKQVQ KMEESFQGLV KYTQALDTIG WAPATLLAAP
       360        370        380        390        400
PTGTGGDDLD RLVMCARGVP DDTKQLASFL HGNASLLFKR TSVGEVPGQL
       410        420        430        440        450
TNNNNVSAYQ TGVPERANIQ SRPLPSPPKF SSEEETPDRP YETTEEGWME
       460        470        480        490        500
DYDYVHLQGK EEFEKNQKQL MEKGSINRHN KTQLEQQQLK QFERLEQEVS
       510        520        530        540        550
RPINNDISGW NPPSHYPPPS RSKLCMGDRQ LLLFYSEQCE ANITTLTNAI
       560        570        580        590        600
DAFYSSINNN QPPKIFVAHS KFVILSAHKL VFIGDTLSRQ AKSPEVRSRV
       610        620        630        640        650
AQHSNTLCDK LKDIVMSTKT AALQYPSPGA AREMTERVRE LSGCTQQFRM

ALNQLLAM
```

Sequence databases

Select the link destinations:
- EMBL[i]
- GenBank[i]
- DDBJ[i]

APWO01106230 Genomic DNA. No translation available.
APWO01106231 Genomic DNA. No translation available.

Another option to get both DNA and Protein Accession codes via NCBI

see next slides

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Click on 'Show details' to display the orthologues for one or more groups of species. Alternatively, click on 'Configure this page' to choose a custom list of species.

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Selected orthologues Click this link depending on the ortholog you want

Show All entries Show/hide columns

Species	Type	WGA	Gene identifier & gene name	Compare
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Armadillo (*Dasypus novemcinctus*)	1-to-1	n/a	ENSDNOG00000039184 BCAR1 breast cancer anti-estrogen resistance 1 [Source:HGNC Symbol;Acc:HGNC:971]	Region Comparison; Alignment (protein); Alignment (cDNA); Gene Tree (image)
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Chicken (*Gallus gallus*)	1-to-1	n/a	ENSGALG00000028291 BCAR1 breast cancer anti-estrogen resistance 1 [Source:HGNC Symbol;Acc:HGNC:971]	Region Comparison; Alignment (protein); Alignment (cDNA); Gene Tree (image)
Chimpanzee (*Pan troglodytes*)	1-to-1	n/a	ENSPTRG00000008357 BCAR1	Region Comparison; Alignment (protein); Alignment (cDNA)

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Gene: BCAR1 ENSDNOG00000039184

Description	breast cancer anti-estrogen resistance 1 [Source:HGNC Symbol;Acc:HGNC:971]
Synonyms	CAS, Crkas, P130Cas, CASS1
Location	Scaffold JH570414.1: 12,191-37,438 reverse strand.
About this gene	This gene has 1 transcript (splice variant), 58 orthologues, 3 paralogues and is a member of 1 Ensembl protein family.
Transcripts	Hide transcript table

Show/hide columns (1 hidden) Filter

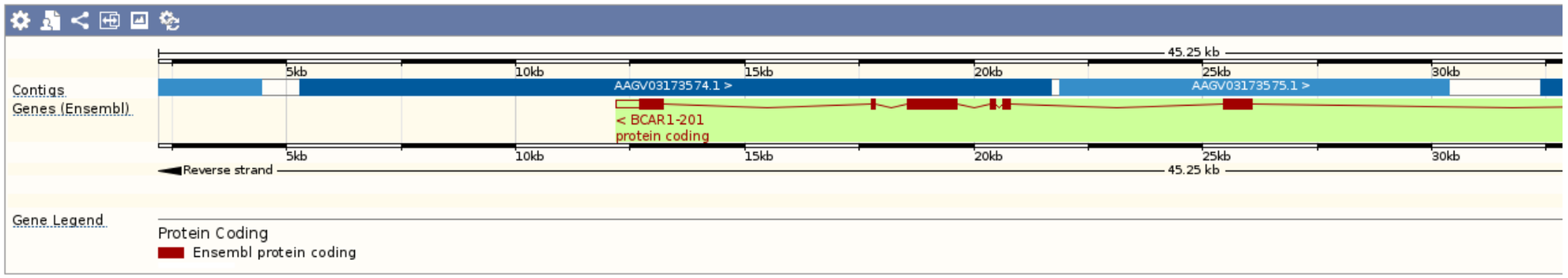
Name	Transcript ID	bp	Protein	Biotype	Flags
BCAR1-201	ENSDNOT00000046242	3102	864aa	Protein coding	

Summary

Name	BCAR1 (Projected HGNC Symbol)
Ensembl version	ENSDNOG00000039184.1
Gene type	Known by_projection protein_coding
Annotation method	Annotation produced by the Ensembl genebuild.

Click on external references

Go to Region in Detail for more tracks and navigation options (e.g. zooming)



Configuring the display

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Name	Transcript ID	bp	Protein	Biotype	Flags
BCAR1-201	ENSDNOT00000046242	3102	864aa	Protein coding	

Look for Entrez Gene and then click on the link here

External references

Download all tables as CSV

This gene corresponds to the following database identifiers:

External database	Database identifier
EntrezGene	BCAR1 breast cancer anti-estrogen resistance 1 [view all locations]
Expression Atlas	ENSDNOG00000039184 [view all locations]
Projected HGNC Symbol	BCAR1 breast cancer anti-estrogen resistance 1 [view all locations]
WikiGene	BCAR1 breast cancer anti-estrogen resistance 1 [view all locations]

The following database identifiers correspond to the transcripts of this gene:

Show/hide columns (16 hidden)

Transcript ID
ENSDNOT00000046242

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Showing Current items.

BCAR1 breast cancer anti-estrogen resistance 1 [*Dasypus novemcinctus* (nine-banded armadillo)]

Gene ID: 101444214, updated on 15-Nov-2015

Summary

Gene symbol	BCAR1
Gene description	breast cancer anti-estrogen resistance 1
See related	Ensembl:ENSDNOG00000039184
Gene type	protein coding
RefSeq status	MODEL
Organism	Dasypus novemcinctus
Lineage	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Xenarthra; Cingulata; Dasypodidae; Dasypus
Orthologs	human mouse all

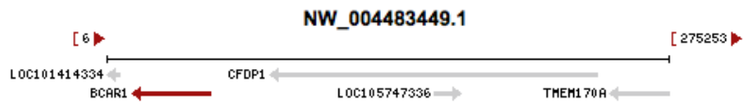
Genomic context

Location: chromosome: Un

See BCAR1 in MapViewe

Exon count: 8

Annotation release	Status	Assembly	Chr	Location
101	current	Dasnov3.0 (GCF_000208655.1)	Unplaced Scaffold	NW_004483449.1 (12204..50983, complement)

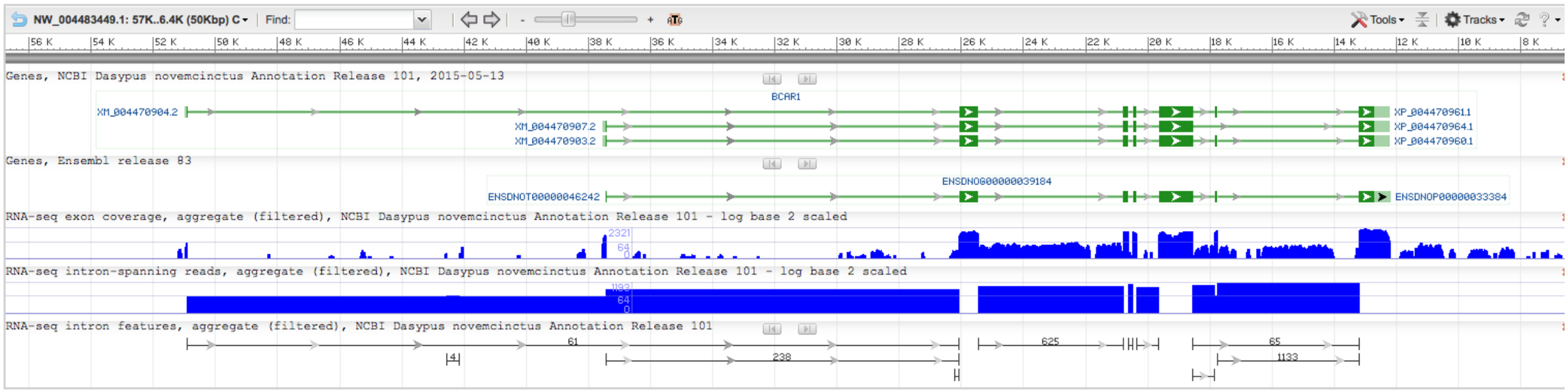


Genomic regions, transcripts, and products

Genomic Sequence: NW_004483449.1 Unplaced Scaffold Reference Dasnov3.0 Primary Assembly

Go to reference sequence detail

Go to nucleotide: Graphics FASTA GenBan



Bibliography

scroll down to the heading NCBI Reference Sequences on this page (RefSeq)

Names
breast cancer anti-estrogen resistance 1

NCBI Reference Sequences (RefSeq)

RefSeqs of Annotated Genomes: Dasypus novemcinctus Annotation Release 101

The following sections contain reference sequences that belong to a specific genome build. Explain

Reference Dasnov3.0 Primary Assembly

Genomic

NW_004483449.1 Reference Dasnov3.0 Primary Assembly

Range	12204..50983 complement
Download	GenBank, FASTA, Sequence Viewer (Graphics)

mRNA and Protein(s)

XM_004470904.2 → XP_004470961.1

Conserved Domains (3) summary

cd11552 Location:449 → 604	Serine_rich_BCAR1; Serine rich Four helix bundle domain of CAS (Crk-Associated Substrate) scaffolding protein, Breast Cancer Anti-estrogen Resistance 1; a protein interaction module
cd11569 Location:729 → 861	FAT-like_BCAR1_C; C-terminal FAT-like Four helix bundle domain, also called DUF3513, of CAS (Crk-Associated Substrate) scaffolding protein, Breast Cancer Anti-estrogen Resistance 1; a protein interaction module
cd12001 Location:5 → 71	SH3_BCAR1; Src homology 3 domain of the CAS (Crk-Associated Substrate) scaffolding protein family member, Breast Cancer Anti-estrogen Resistance 1

XM_004470907.2 → XP_004470964.1

Conserved Domains (3) summary

cd11552 Location:449 → 604	Serine_rich_BCAR1; Serine rich Four helix bundle domain of CAS (Crk-Associated Substrate) scaffolding protein, Breast Cancer Anti-estrogen Resistance 1; a protein interaction module
cd11569 Location:699 → 831	FAT-like_BCAR1_C; C-terminal FAT-like Four helix bundle domain, also called DUF3513, of CAS (Crk-Associated Substrate) scaffolding protein, Breast Cancer Anti-estrogen Resistance 1; a protein interaction module
cd12001 Location:4 → 71	SH3_BCAR1; Src homology 3 domain of the CAS (Crk-Associated Substrate) scaffolding protein family member, Breast Cancer Anti-estrogen Resistance 1

XM_004470903.2 → XP_004470960.1

Related	ENSDNOP00000033384, ENSDNOT00000046242

Conserved Domains (3) summary

cd11552 Location:449 → 604	Serine_rich_BCAR1; Serine rich Four helix bundle domain of CAS (Crk-Associated Substrate) scaffolding protein, Breast Cancer Anti-estrogen Resistance 1; a protein interaction module
cd11569 Location:729 → 861	FAT-like_BCAR1_C; C-terminal FAT-like Four helix bundle domain, also called DUF3513, of CAS (Crk-Associated Substrate) scaffolding protein, Breast Cancer Anti-estrogen Resistance 1; a protein interaction module
cd12001 Location:4 → 71	SH3_BCAR1; Src homology 3 domain of the CAS (Crk-Associated Substrate) scaffolding protein family member, Breast Cancer Anti-estrogen Resistance 1

GenPept Send to:

PREDICTED: breast cancer anti-estrogen resistance protein 1 isoform X2 [Dasypus novemcinctus]

NCBI Reference Sequence: XP_004470961.1

Identical Proteins FASTA Graphics

Go to:

```
LOCUS       XP_004470961             864 aa            linear   MAM 13-MAY-2015
DEFINITION  PREDICTED: breast cancer anti-estrogen resistance protein 1 isoform
            X2 [Dasypus novemcinctus].
ACCESSION   XP_004470961
VERSION     XP_004470961.1  GI:488562488
DBLINK      BioProject: PRJNA196486
DBSOURCE    REFSEQ: accession XM_004470904.2
KEYWORDS    RefSeq.
SOURCE      Dasypus novemcinctus (nine-banded armadillo)
  ORGANISM  Dasypus novemcinctus
            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Xenarthra; Cingulata; Dasypodidae; Dasypus.
COMMENT     MODEL REFSEQ:  This record is predicted by automated computational
            analysis. This record is derived from a genomic sequence
            (NW_004483449.1) annotated using gene prediction method: Gnomon.
            Also see:
                Documentation of NCBI's Annotation Process

            ##Genome-Annotation-Data-START##
            Annotation Provider         :: NCBI
            Annotation Status           :: Full annotation
            Annotation Version          :: Dasypus novemcinctus Annotation
                                           Release 101
            Annotation Pipeline         :: NCBI eukaryotic genome annotation
                                           pipeline
            Annotation Software Version :: 6.3
            Annotation Method           :: Best-placed RefSeq; Gnomon
            Features Annotated          :: Gene; mRNA; CDS; ncRNA
            ##Genome-Annotation-Data-END##
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                     /chromosome="Unknown"
                     /sex="female"
                     /country="USA: National Hansen's Disease Programs at
                     Louisiana State University, School of Veterinary Medicine"
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                     Cancer Anti-estrogen Resistance 1; cd12001"
                     /db_xref="CDD:212934"
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                     /note="peptide ligand binding site [polypeptide binding]"
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                     /region_name="Serine_rich_BCAR1"
                     /note="Serine rich Four helix bundle domain of CAS
                     (Crk-Associated Substrate) scaffolding protein, Breast
                     Cancer Anti-estrogen Resistance 1; a protein interaction
                     module; cd11552"
                     /db_xref="CDD:211406"
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Change region shown

Customize view

Analyze this sequence
Run BLAST
Identify Conserved Domains
Highlight Sequence Features
Find in this Sequence

Reference sequence information
RefSeq mRNA
See reference mRNA sequence for the BCAR1 gene (XM_004470904.2).
RefSeq protein isoforms
See 3 reference sequence protein isoforms for the BCAR1 gene.

More about the gene BCAR1
BCAR1 gene

Related information
BLink
Related Sequences
BioProject
CDD Search Results
Conserved Domains (Concise)
Conserved Domains (Full)
Domain Relatives
Encoding mRNA
Gene
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Nucleotide
Proteins with Similar Sequences
Taxonomy

LinkOut to external resources
Ensembl
[Ensembl]

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PREDICTED: breast cancer anti-estrogen resistance protein 1 isoform X2 [Dasyp Protein
BCAR1 [Dasypus novemcinctus] Gene
bcar1 [Astyanax mexicanus] Gene