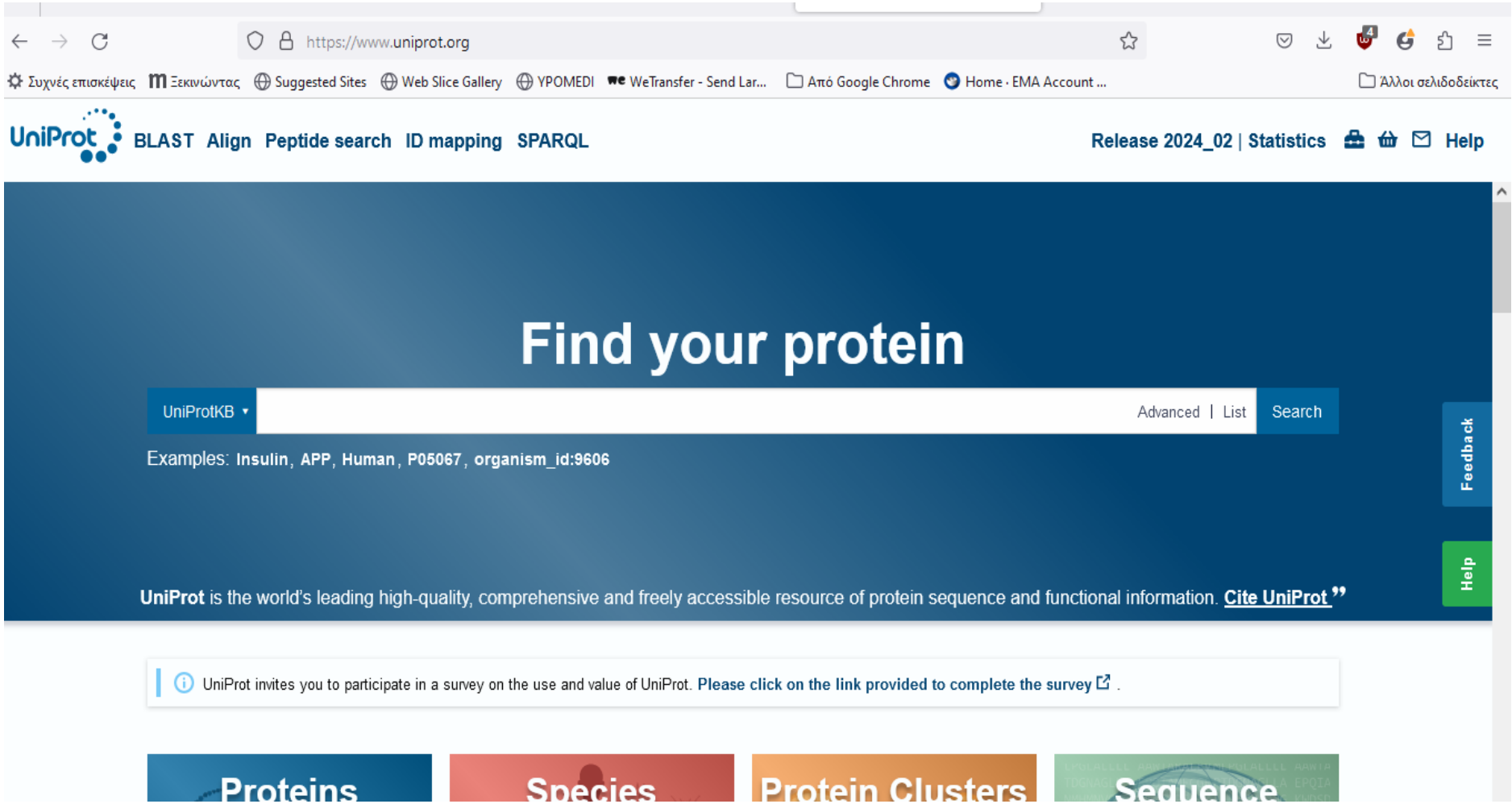
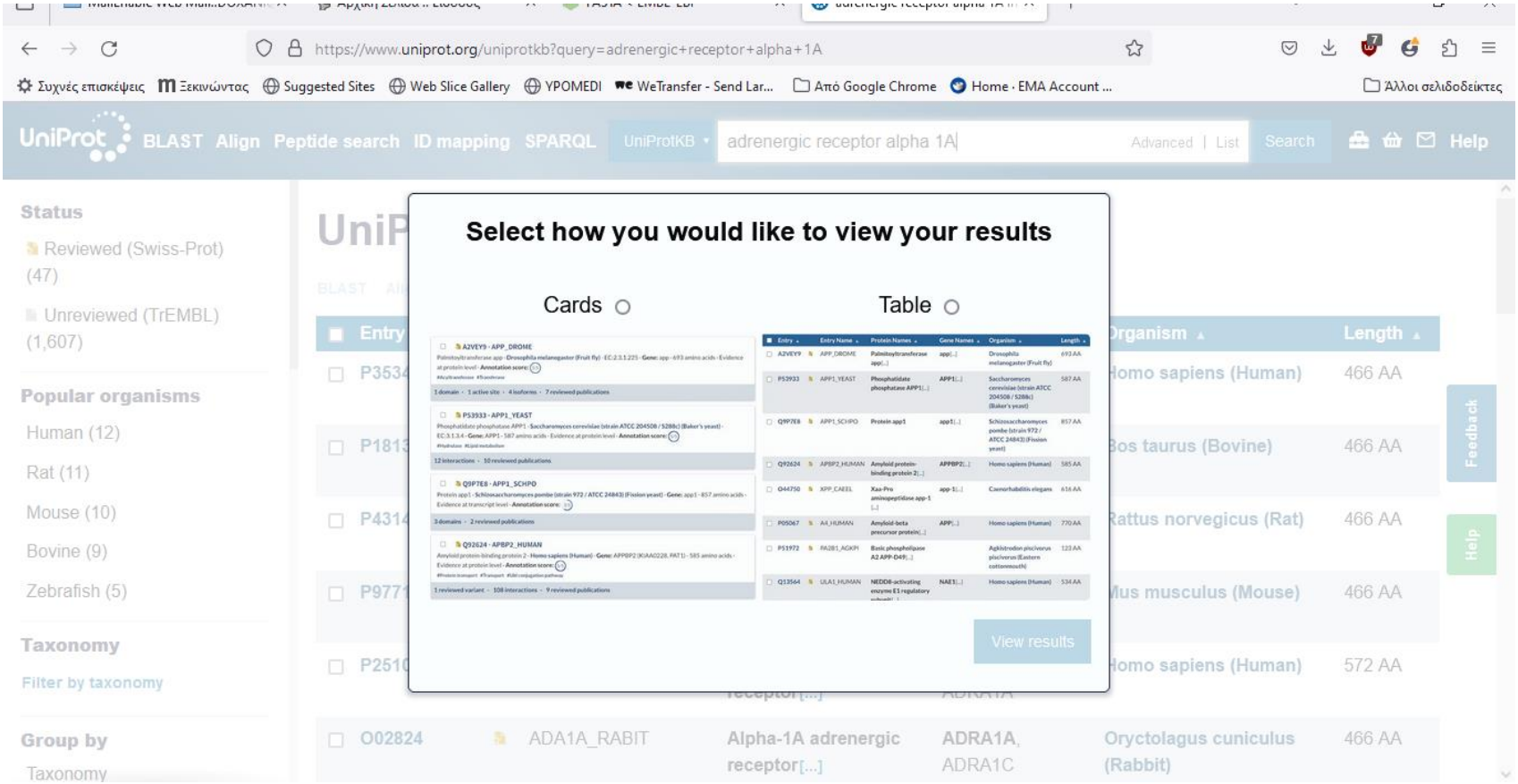
ΠΡΑΚΤΙΚΗ ΕΦΑΡΜΟΓΗ

Αντιστοιχία αλληλουχιών ανά ζεύγη - FASTA

Ανοίξτε το Internet Explorer και πληκτρολογήστε τη διεύθυνση: http://www.uniprot.org/ για την πρόσβαση στην βάση δεδομένων SWISS-PROT που περιέχει αλληλουχίες πρωτεϊνών. Μετά πληκτρολογήστε στο πλαίσιο παρακάτω: adrenergic receptor alpha 1A – human, και επιλέξτε “Search”.




https://www.uniprot.org/uniprotkb?query=adrenergic+receptor+alpha+1A
Συχνές επισκέψεις
Ξεκινώντας
Suggested Sites
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Από Google Chrome
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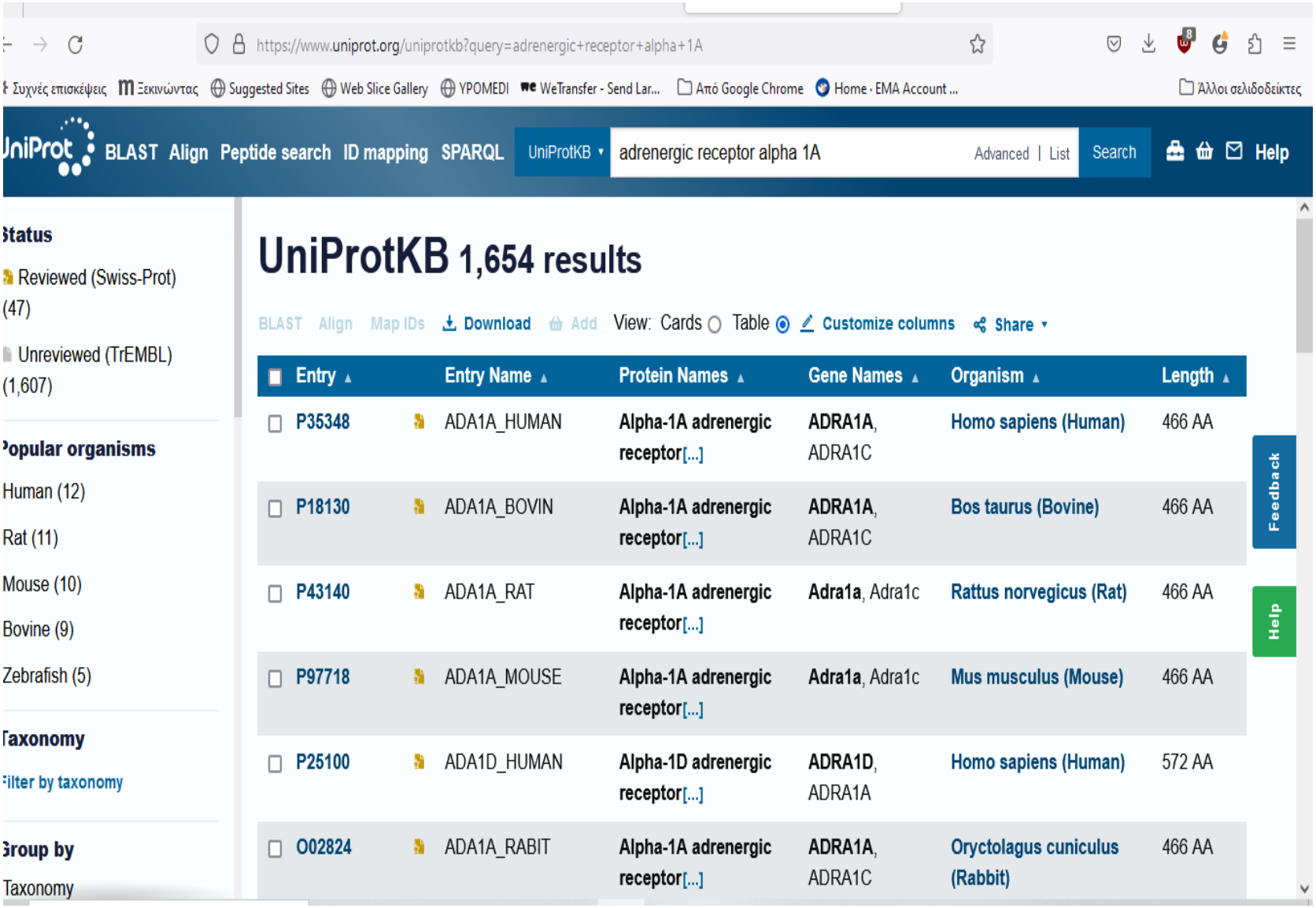
Άλλοι σελιδοδείκτες
UniProt
BLAST
Align
Peptide search
ID mapping
SPARQL
UniProtKB
adrenergic receptor alpha 1A
Advanced | List
Search
Help
Status
Reviewed (Swiss-Prot) (47)
Unreviewed (TrEMBL) (1,607)
Popular organisms
Human (12)
Rat (11)
Mouse (10)
Bovine (9)
Zebrafish (5)
Taxonomy
Filter by taxonomy
Group by
Taxonomy
Select how you would like to view your results
Cards
Table
View results
Entry
Organism
Length
Homo sapiens (Human) 466 AA
Bos taurus (Bovine) 466 AA
Rattus norvegicus (Rat) 466 AA
Mus musculus (Mouse) 466 AA
Homo sapiens (Human) 572 AA
O02824 ADA1A_RABIT Alpha-1A adrenergic receptor[...] ADRA1A, ADRA1C Oryctolagus cuniculus (Rabbit) 466 AA
Feedback
Help


https://www.uniprot.org/uniprotkb?query=adrenergic+receptor+alpha+1A
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Ξεκινώντας
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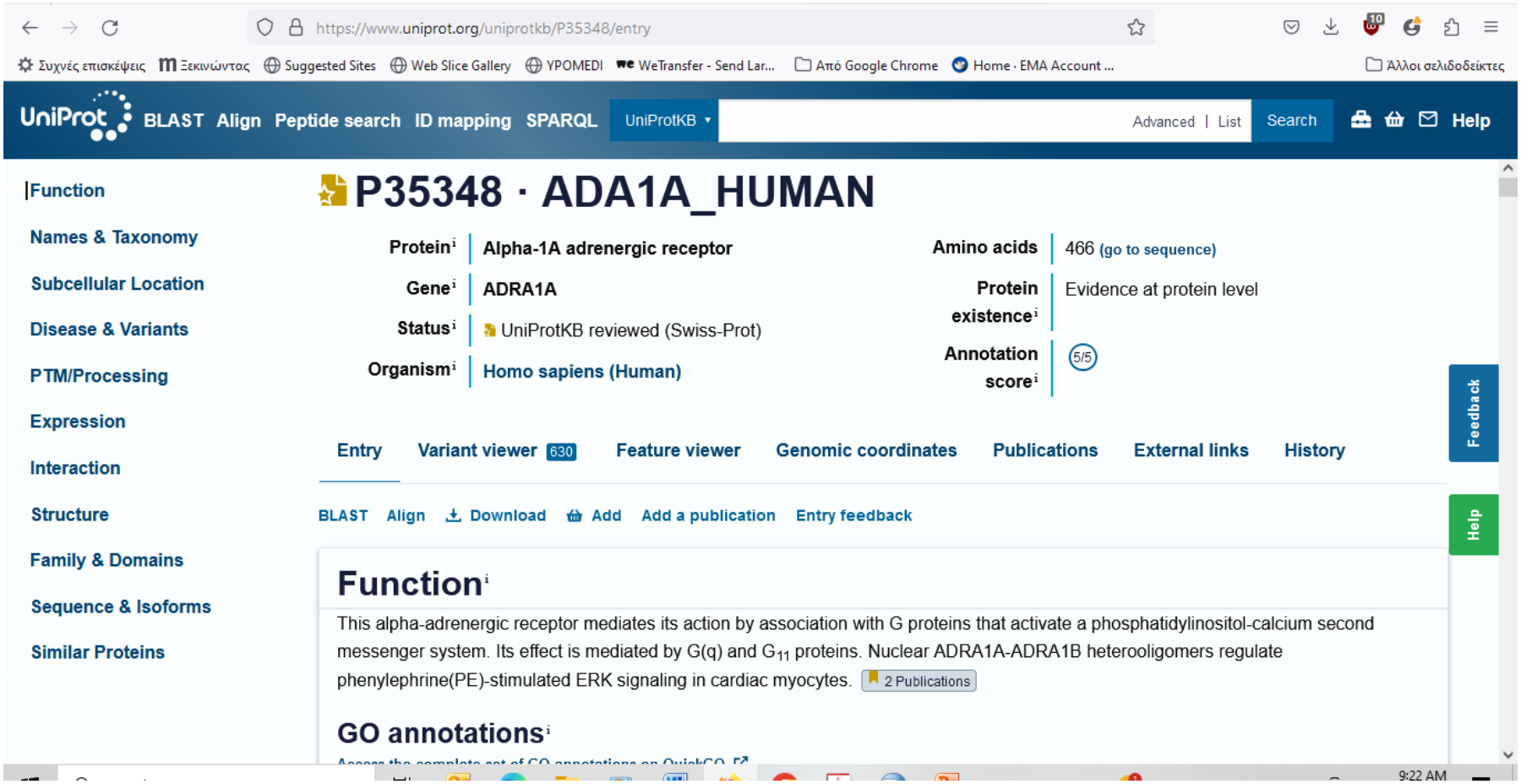
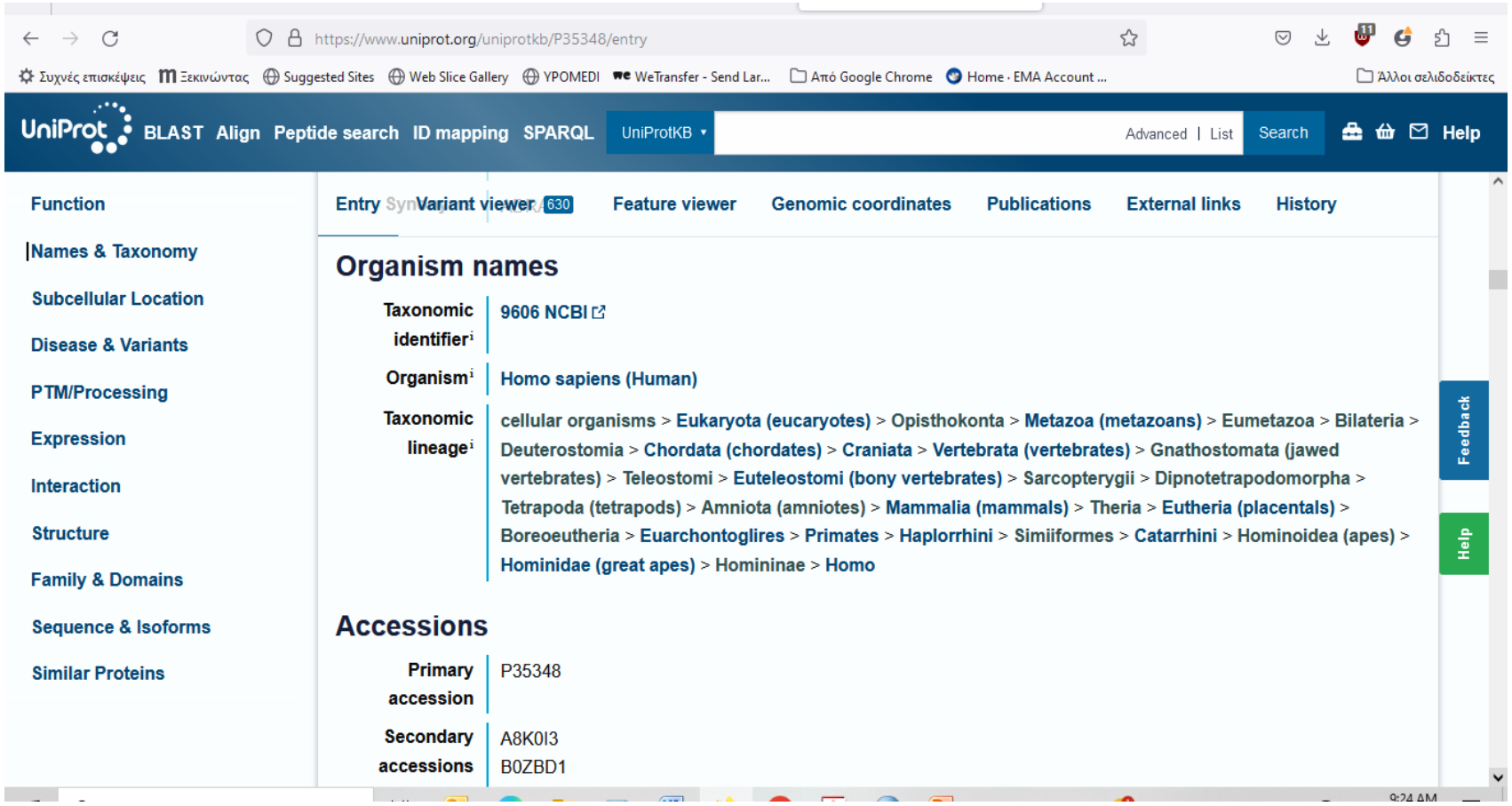
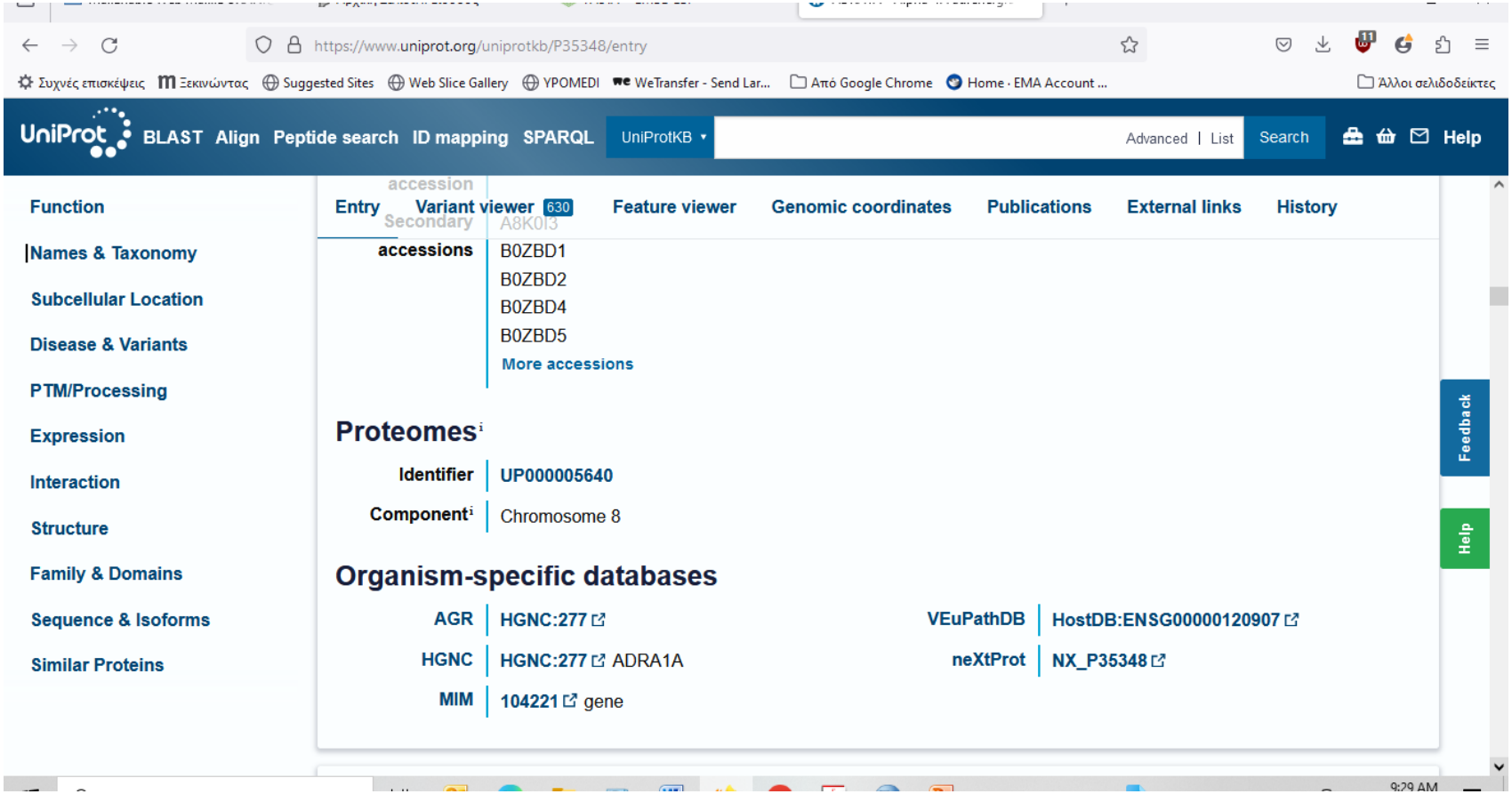
Άλλοι σελιδοδείκτες
UniProt
BLAST Align Peptide search ID mapping SPARQL
UniProtKB
adrenergic receptor alpha 1A
Advanced | List
Search
Help
Status
Reviewed (Swiss-Prot) (47)
Unreviewed (TrEMBL) (1,607)
Popular organisms
Human (12)
Rat (11)
Mouse (10)
Bovine (9)
Zebrafish (5)
Taxonomy
Filter by taxonomy
Group by
Taxonomy
UniProtKB 1,654 results
BLAST Align Map IDs Download Add View: Cards Table Customize columns Share
Entry
Entry Name
Protein Names
Gene Names
Organism
Length
P35348 ADA1A_HUMAN Alpha-1A adrenergic receptor[...] ADRA1A, ADRA1C Homo sapiens (Human) 466 AA
P18130 ADA1A_BOVIN Alpha-1A adrenergic receptor[...] ADRA1A, ADRA1C Bos taurus (Bovine) 466 AA
P43140 ADA1A_RAT Alpha-1A adrenergic receptor[...] Adra1a, Adra1c Rattus norvegicus (Rat) 466 AA
P97718 ADA1A_MOUSE Alpha-1A adrenergic receptor[...] Adra1a, Adra1c Mus musculus (Mouse) 466 AA
P25100 ADA1D_HUMAN Alpha-1D adrenergic receptor[...] ADRA1D, ADRA1A Homo sapiens (Human) 572 AA
O02824 ADA1A_RABIT Alpha-1A adrenergic receptor[...] ADRA1A, ADRA1C Oryctolagus cuniculus (Rabbit) 466 AA
Feedback
Help

Στη συνέχεια, δίνεται μια λίστα σχετικών πρωτεϊνών. Η ζητούμενη πρωτεΐνη είναι η ADA1A_HUMAN, οπότε επιλέξτε αυτό το όνομα.



Μετά δίνονται οι πληροφορίες γι’ αυτήν την πρωτεΐνη. Επιλέξτε “FASTA format”.




https://www.uniprot.org/uniprotkb/P35348/entry
UniProt
BLAST Align Peptide search ID mapping SPARQL
UniProtKB
Advanced | List
Search
Help
Function
Names & Taxonomy
Subcellular Location
Disease & Variants
PTM/Processing
Expression
Interaction
Structure
Family & Domains
Sequence & Isoforms
Similar Proteins
Entry
Variant viewer 630
Feature viewer
Genomic coordinates
Publications
External links
History
accession
Secondary accessions
A8K0I3
B0ZBD1
B0ZBD2
B0ZBD4
B0ZBD5
More accessions
Proteomes
Identifier
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Component
Chromosome 8
Organism-specific databases
AGR
HGNC:277
HGNC
HGNC:277 ADRA1A
MIM
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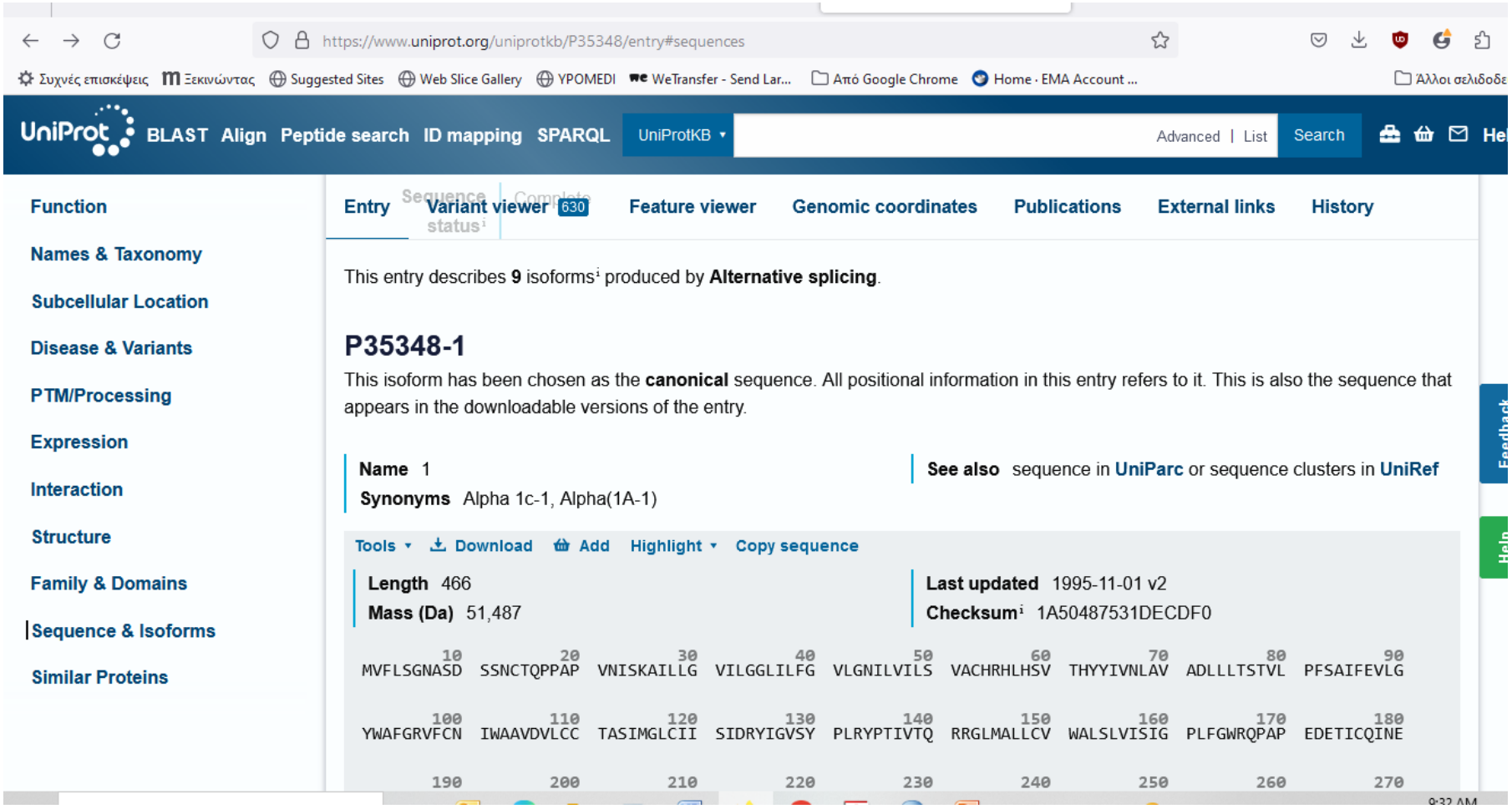
VEuPathDB
HostDB:ENSG00000120907
neXtProt
NX_P35348
Feedback
Help


https://www.uniprot.org/uniprotkb/P35348/entry#sequences
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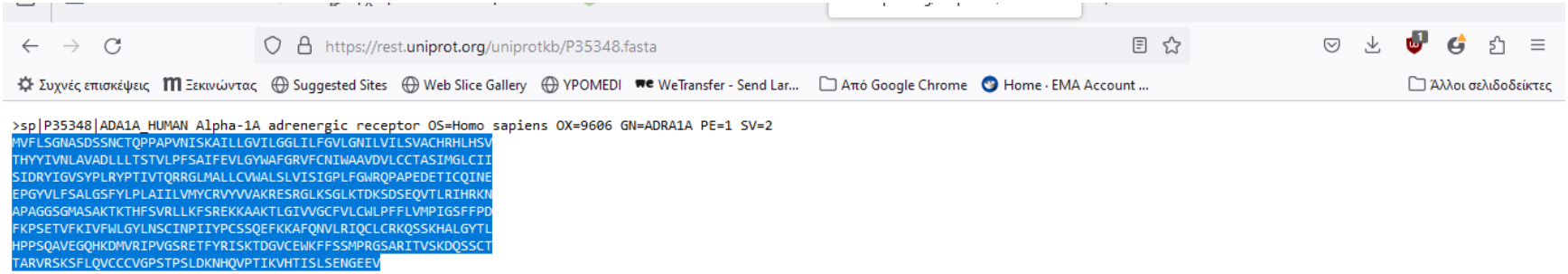
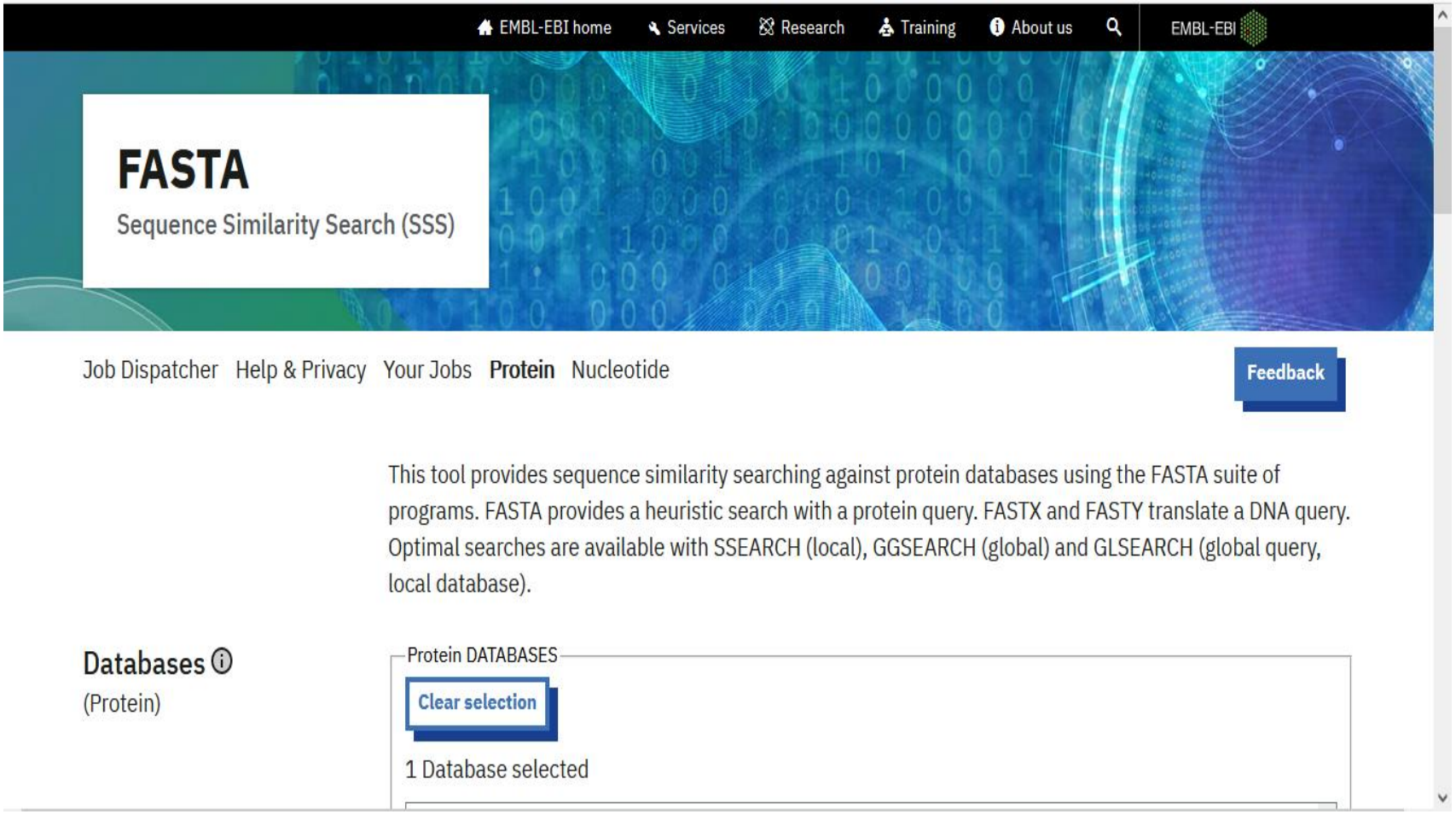
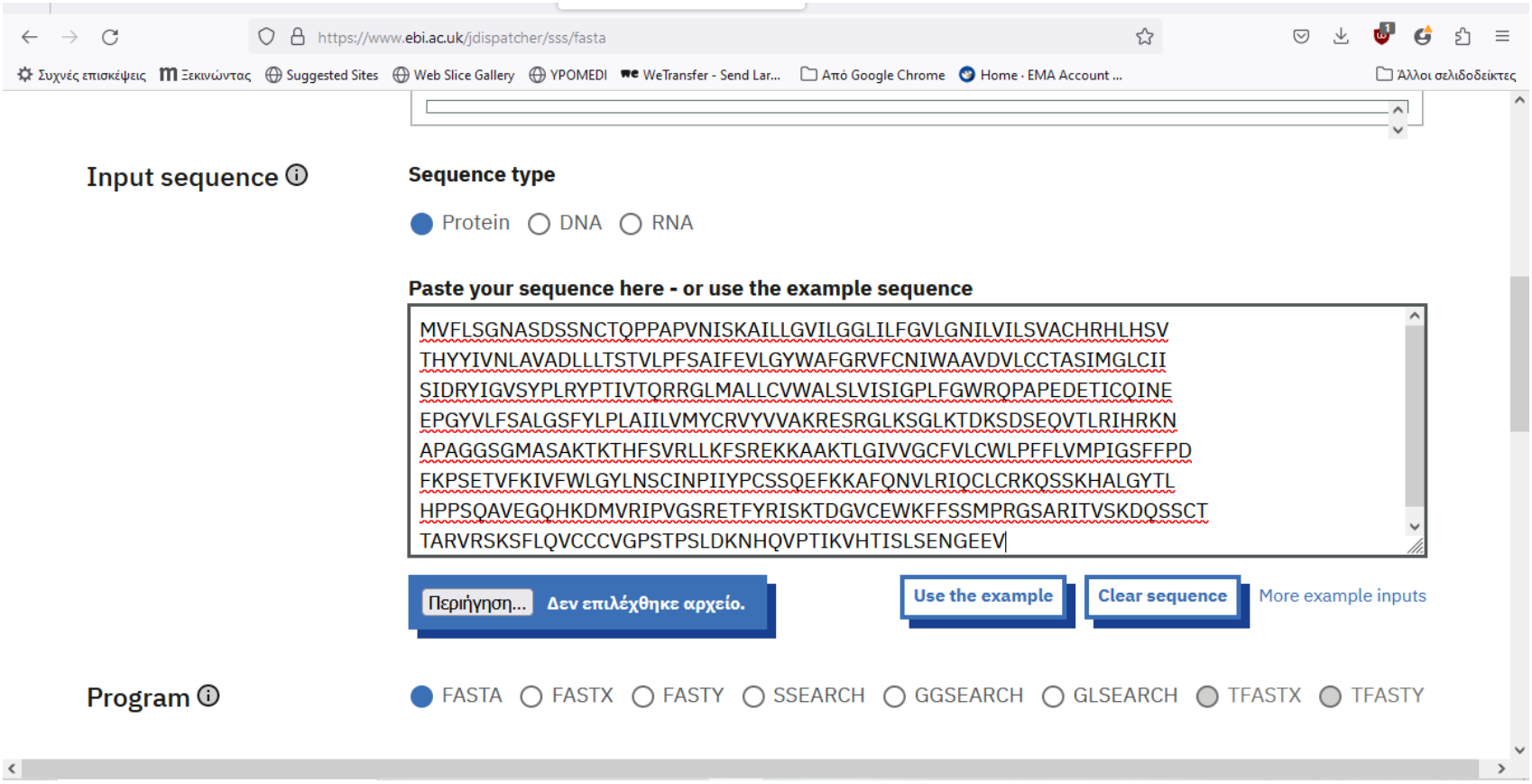
Peptide search
ID mapping
SPARQL
UniProtKB
Advanced | List
Search
Function
Names & Taxonomy
Subcellular Location
Disease & Variants
PTM/Processing
Expression
Interaction
Structure
Family & Domains
Sequence & Isoforms
Similar Proteins
Entry
Sequence status
Variant viewer 630
Feature viewer
Genomic coordinates
Publications
External links
History
This entry describes 9 isoforms produced by Alternative splicing.
P35348-1
This isoform has been chosen as the canonical sequence. All positional information in this entry refers to it. This is also the sequence that appears in the downloadable versions of the entry.
Name 1
Synonyms Alpha 1c-1, Alpha(1A-1)
See also sequence in UniParc or sequence clusters in UniRef
Tools
Download
Add
Highlight
Copy sequence
Length 466
Mass (Da) 51,487
Last updated 1995-11-01 v2
Checksum 1A50487531DECDF0
10 20 30 40 50 60 70 80 90
MVFLSGNASD SSNCTQPPAP VNISKAILLG VILGGLILFG VLGNILVILS VACHRHLHSV THYYIVNLAV ADLLLTSTVL PFSAIFEVLG
100 110 120 130 140 150 160 170 180
YWAFGRVFCN IWAAVDVLCC TASIMGLCII SIDRYIGVSY PLRYPTIVTQ RRGLMALLCV WALSLVISIG PLFGWRQPAP EDETICQINE
190 200 210 220 230 240 250 260 270
Feedback
Help

Τότε δίνεται η αλληλουχία της πρωτεΐνης, οπότε την επιλέγουμε και την αντιγράφουμε για να την επικολλήσουμε μέσα στο πρόγραμμα FASTA.

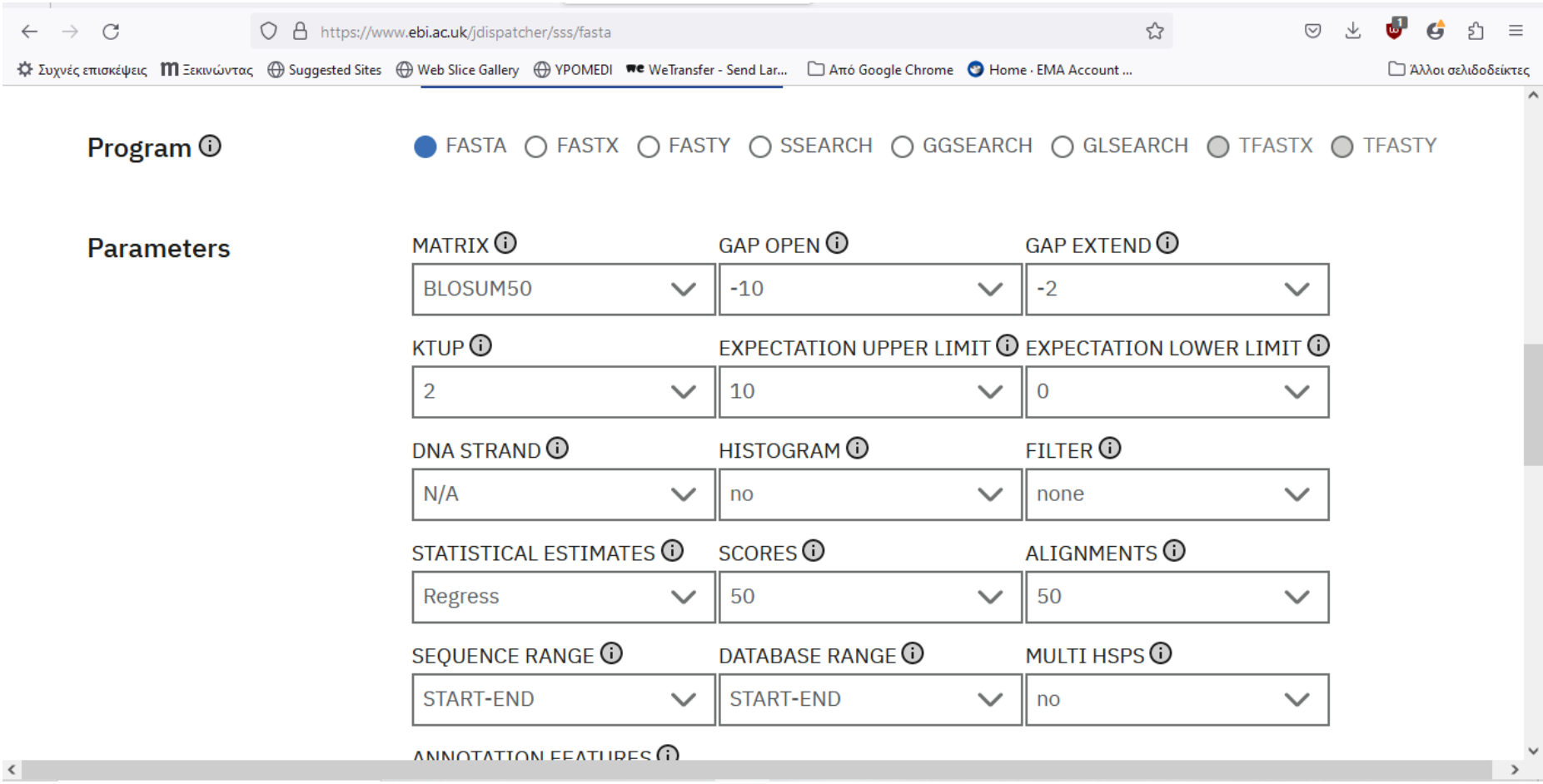


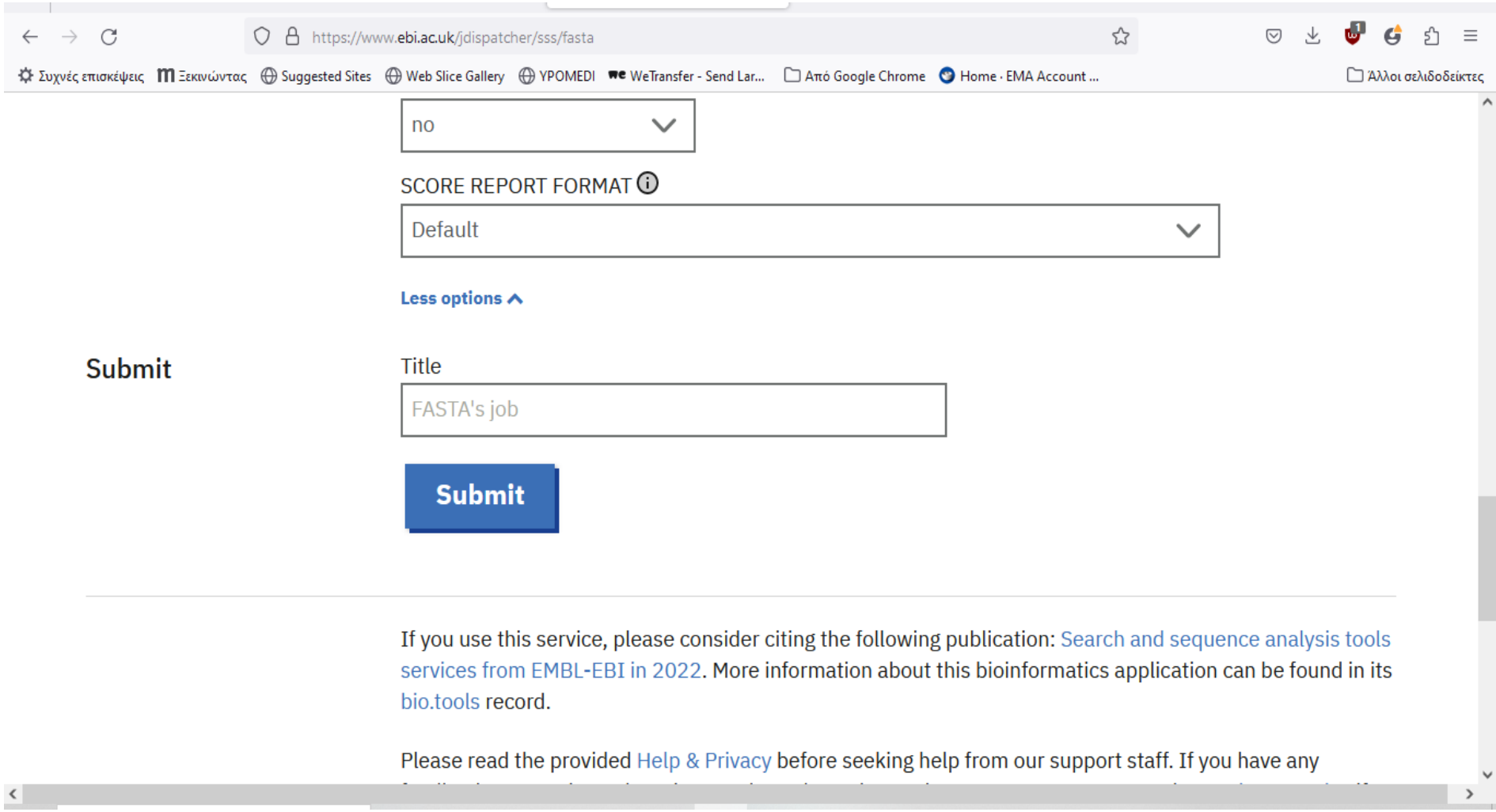
Για πρόσβαση στο FASTA, ανοίξτε το Internet Explorer και πληκτρολογήστε “http://www.ebi.ac.uk/Tools/sss/fasta/..




https://www.ebi.ac.uk/jdispatcher/sss/fasta
Input sequence
Sequence type
Protein
DNA
RNA
Paste your sequence here - or use the example sequence
MVFLSGNASDSSNCTQPPAPVNISKAILLGVILGGLILFGVLGNILVILSVACHRHLHSV
THYYIVNLAVADLLLTSTVLPFSAIFEVLGYWAFGRVFCNIWAAVDVLCCTASIMGLCII
SIDRYIGVSYPLRYPTIVTQRRGLMALLCVWALSLVISIGPLFGWRQPAPEDETICQINE
EPGYVLFSALGSFYLPLAIILVMYCRVYVVAKRESRGLKSGLKTDKSDSEQVTLRIHRKN
APAGGSGMASAKTKTHFSVRLLKFSREKKAAKTLGIVVGCFVLCWLPFFLVMPIGSFFPD
FKPSETVFKIVFWLGYLNSCINPIIYPCSSQEFKKAFQNVLRIQCLCRKQSSKHALGYTL
HPPSQAVEGQHKDMVRIPVGSRETFYRISKTDGVCEWKFFSSMPRGSARITVSKDQSSCT
TARVRSKSFLQVCCCVGPSTPSLDKNHQVPTIKVHTISLSENGEEV
Περιήγηση...
Δεν επιλέχθηκε αρχείο.
Use the example
Clear sequence
More example inputs
Program
FASTA
FASTX
FASTY
SSEARCH
GGSEARCH
GLSEARCH
TFASTX
TFASTY

Κρατάμε τις επιλεγμένες (default) παραμέτρους, αλλά θα μπορούσαμε να αλλάξουμε όποιαδήποτε παράμετρο




https://www.ebi.ac.uk/jdispatcher/sss/fasta
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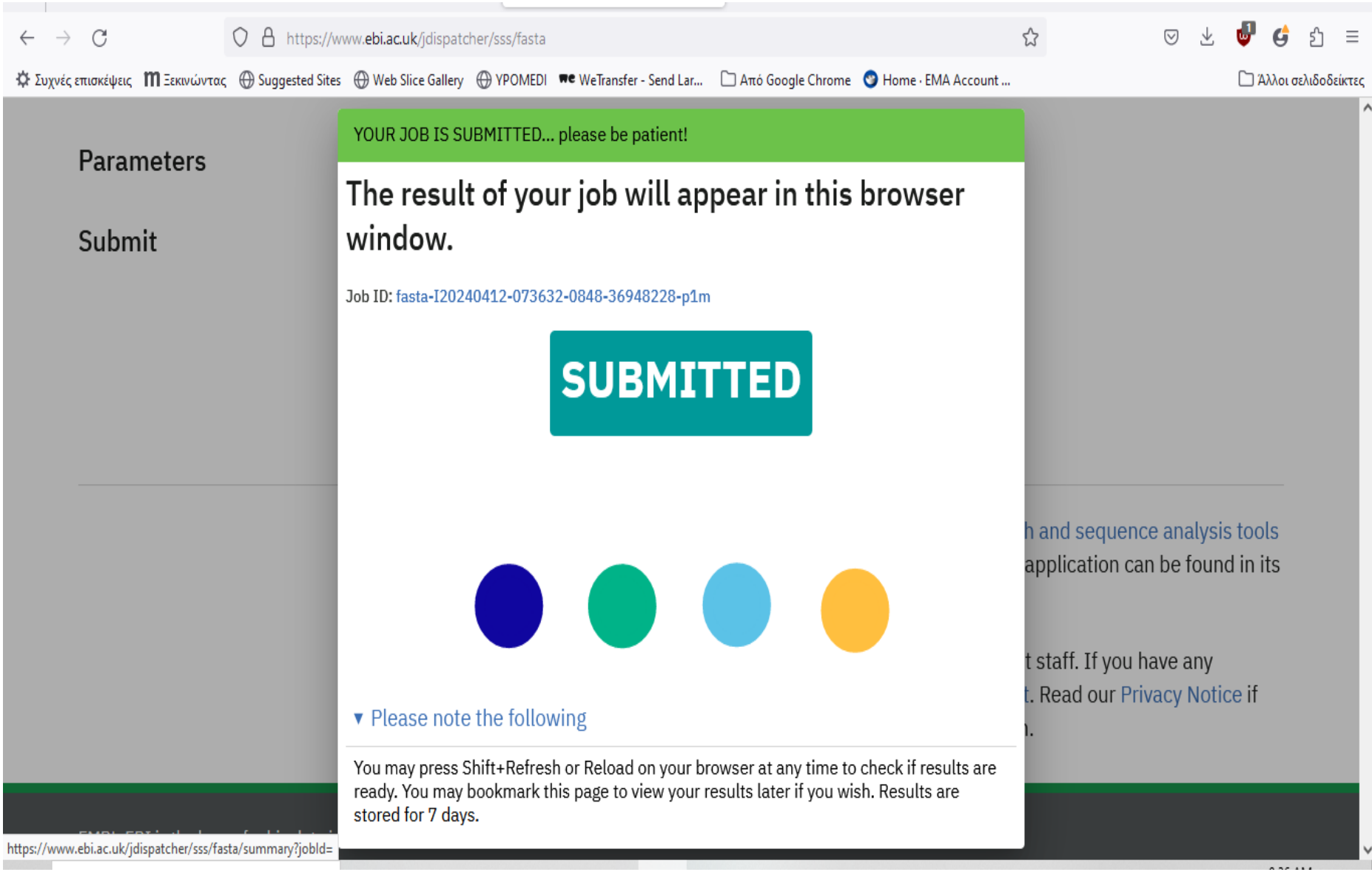
Ξεκινώντας
Suggested Sites
Web Slice Gallery
YPOMEDI
WeTransfer - Send Lar...
Από Google Chrome
Home - EMA Account ...
Άλλοι σελιδοδείκτες
no
SCORE REPORT FORMAT
Default
Less options
Submit
Title
FASTA's job
Submit
If you use this service, please consider citing the following publication: Search and sequence analysis tools services from EMBL-EBI in 2022. More information about this bioinformatics application can be found in its bio.tools record.
Please read the provided Help & Privacy before seeking help from our support staff. If you have any


https://www.ebi.ac.uk/jdispatcher/sss/fasta
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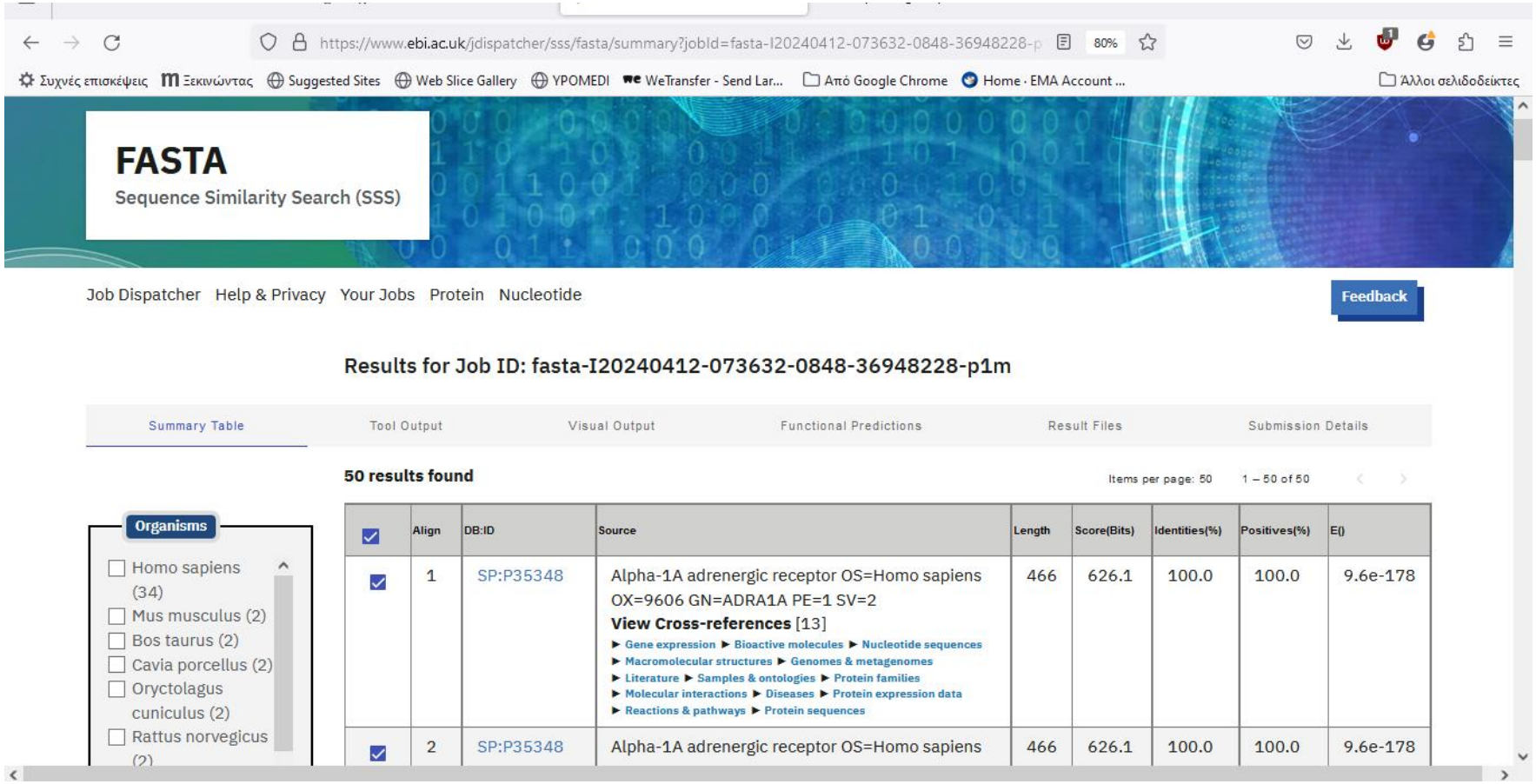
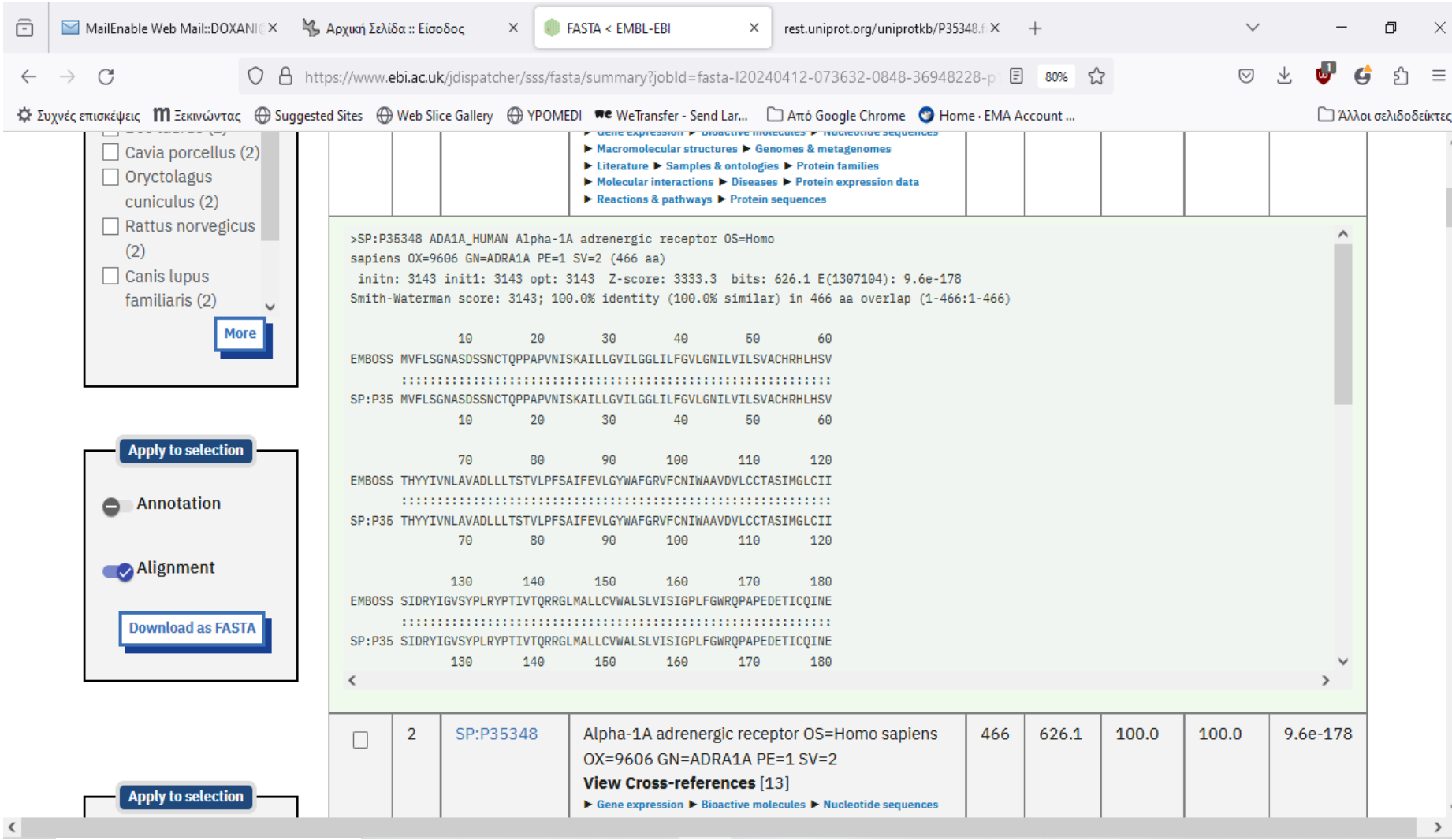
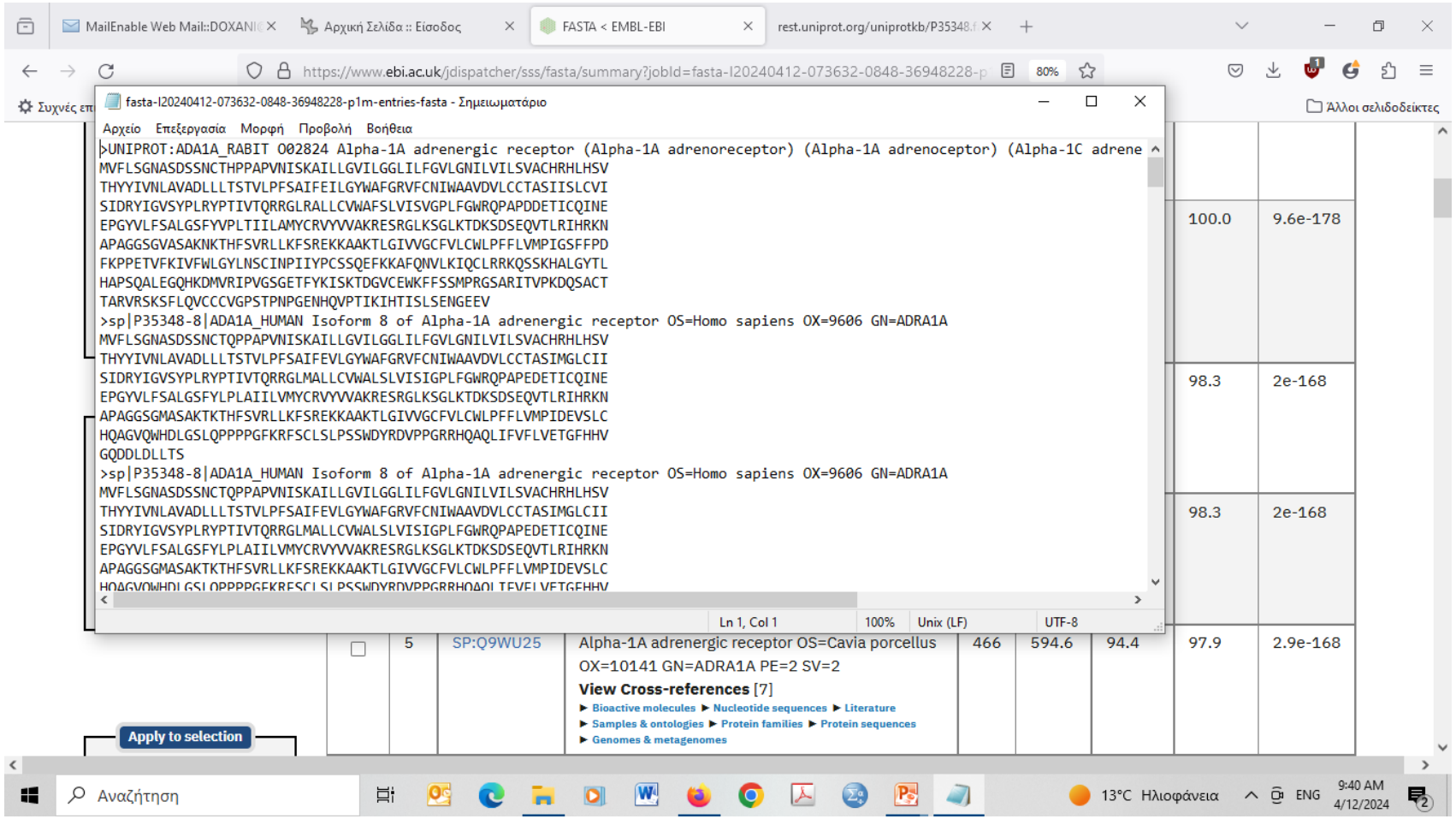
Parameters
Submit
YOUR JOB IS SUBMITTED... please be patient!
The result of your job will appear in this browser window.
Job ID: fasta-I20240412-073632-0848-36948228-p1m
SUBMITTED
h and sequence analysis tools
application can be found in its
t staff. If you have any
t. Read our Privacy Notice if
▼ Please note the following
You may press Shift+Refresh or Reload on your browser at any time to check if results are ready. You may bookmark this page to view your results later if you wish. Results are stored for 7 days.
https://www.ebi.ac.uk/jdispatcher/sss/fasta/summary?jobId=

Τα αποτελέσματα (output) παρέχουν μια λίστα όλων των αλληλουχιών που είναι όμοιες με την ζητούμενη αλληλουχία. Οι αλληλουχίες προέρχονται από τη βάση δεδομένων SWISS-PROT. Το μήκος, ομοιότητα και το E-value για κάθε σύγκριση δίνεται. Αν ενδιαφέρεστε να συγκρίνετε μόνο τις σειρές ADA1A_HUMAN και A1AA_OS, μην επιλέγεται (unmark) όλα τα πλαίσια κάτω από το “Alignment” εκτός από το ADA1A_OS. Μετά επιλέξτε το “Show Alignments”.



Τότε εμφανίζονται οι αντιστοιχίες.




fasta-I20240412-073632-0848-36948228-p1m-entries-fasta - Σημειωματάριο
Αρχείο Επεξεργασία Μορφή Προβολή Βοήθεια
>UNIPROT:ADA1A_RABIT O02824 Alpha-1A adrenergic receptor (Alpha-1A adrenoreceptor) (Alpha-1A adrenoceptor) (Alpha-1C adrene
MVFLSGNASDSSNCTHPPAPVNISKAILLGVILGGLILFGVLGNILVILSVACHRHLHSV
THYYIVNLAVADLLLTSTVLPFSAIFEILGYWAFGRVFCNIWAAVDVLCCTASIISLCVI
SIDRYIGVSYPLRYPTIVTQRRGLRALLCVWAFSLVISVGPLFGWRQPAPDDETICQINE
EPGYVLFSALGSFYVPLTIILAMYCRVYVVAKRESRGLKSGLKTDKSDSEQVTLRIHRKN
APAGGSGVASAKNKTHFSVRLLKFSREKKAAKTLGIVVGCFVLCWLPFFLVMPIGSFFPD
FKPPETVFKIVFWLGYLNSCINPIIYPCSSQEFKKAFQNVLKIQCLRRKQSSKHALGYTL
HAPSQALEGQHKDMVRIPVGSGETFYKISKTDGVCEWKFFSSMPRGSARITVPKDQSACT
TARVRSKSFLQVCCCVGPSTPNPGENHQVPTIKIHTISLSENGEEV
>sp|P35348-8|ADA1A_HUMAN Isoform 8 of Alpha-1A adrenergic receptor OS=Homo sapiens OX=9606 GN=ADRA1A
MVFLSGNASDSSNCTQPPAPVNISKAILLGVILGGLILFGVLGNILVILSVACHRHLHSV
THYYIVNLAVADLLLTSTVLPFSAIFEVLGYWAFGRVFCNIWAAVDVLCCTASIMGLCII
SIDRYIGVSYPLRYPTIVTQRRGLMALLCVWALSLVISIGPLFGWRQPAPEDETICQINE
EPGYVLFSALGSFYLPLAIILVMYCRVYVVAKRESRGLKSGLKTDKSDSEQVTLRIHRKN
APAGGSGMASAKTKTHFSVRLLKFSREKKAAKTLGIVVGCFVLCWLPFFLVMPIDEVSLC
HQAGVQWHDLGSLQPPPPGFKRFSCLSLPSSWDYRDVPPGRRHQAQLIFVFLVETGFHHV
GQDDLDLLTS
>sp|P35348-8|ADA1A_HUMAN Isoform 8 of Alpha-1A adrenergic receptor OS=Homo sapiens OX=9606 GN=ADRA1A
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THYYIVNLAVADLLLTSTVLPFSAIFEVLGYWAFGRVFCNIWAAVDVLCCTASIMGLCII
SIDRYIGVSYPLRYPTIVTQRRGLMALLCVWALSLVISIGPLFGWRQPAPEDETICQINE
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100%
Unix (LF)
UTF-8
100.0
9.6e-178
98.3
2e-168
98.3
2e-168
5
SP:Q9WU25
Alpha-1A adrenergic receptor OS=Cavia porcellus OX=10141 GN=ADRA1A PE=2 SV=2
View Cross-references [7]
► Bioactive molecules ► Nucleotide sequences ► Literature
► Samples & ontologies ► Protein families ► Protein sequences
► Genomes & metagenomes
466
594.6
94.4
97.9
2.9e-168
Apply to selection
Αναζήτηση
13°C Ηλιοφάνεια
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4/12/2024

MailEnable Web Mail::DOXANI | Αρχική Σελίδα :: Είσοδος | FASTA < EMBL-EBI | rest.uniprot.org/uniprotkb/P35348.f

https://www.ebi.ac.uk/jdispatcher/sss/fasta/summary?jobId=fasta-I20240412-073632-0848-36948228-p 80%

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Summary Table | Tool Output | Visual Output | Functional Predictions | Result Files | Submission Details

Visual Output

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Summary Table | Tool Output | Visual Output | Functional Predictions | Result Files | Submission Details

Functional Predictions

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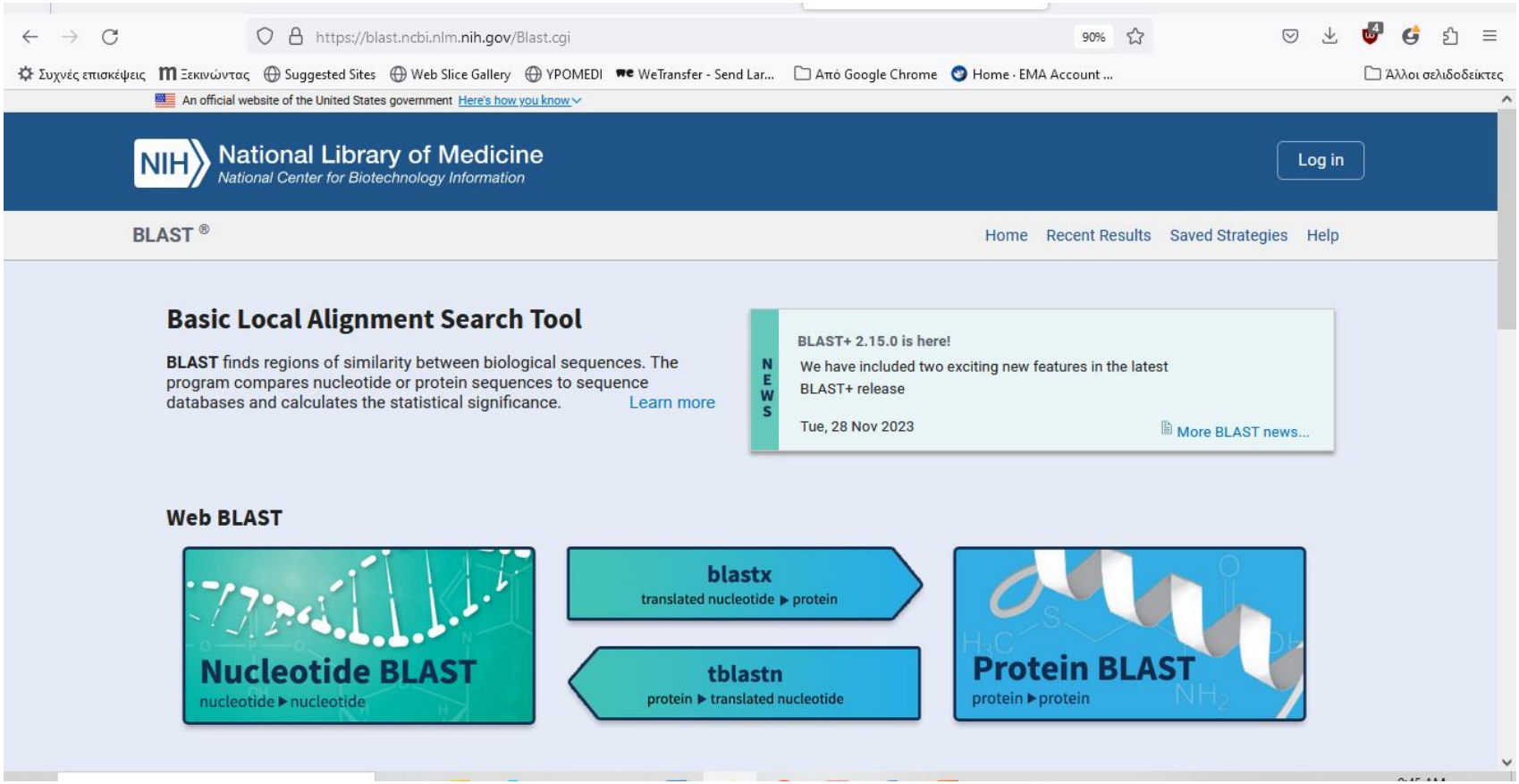
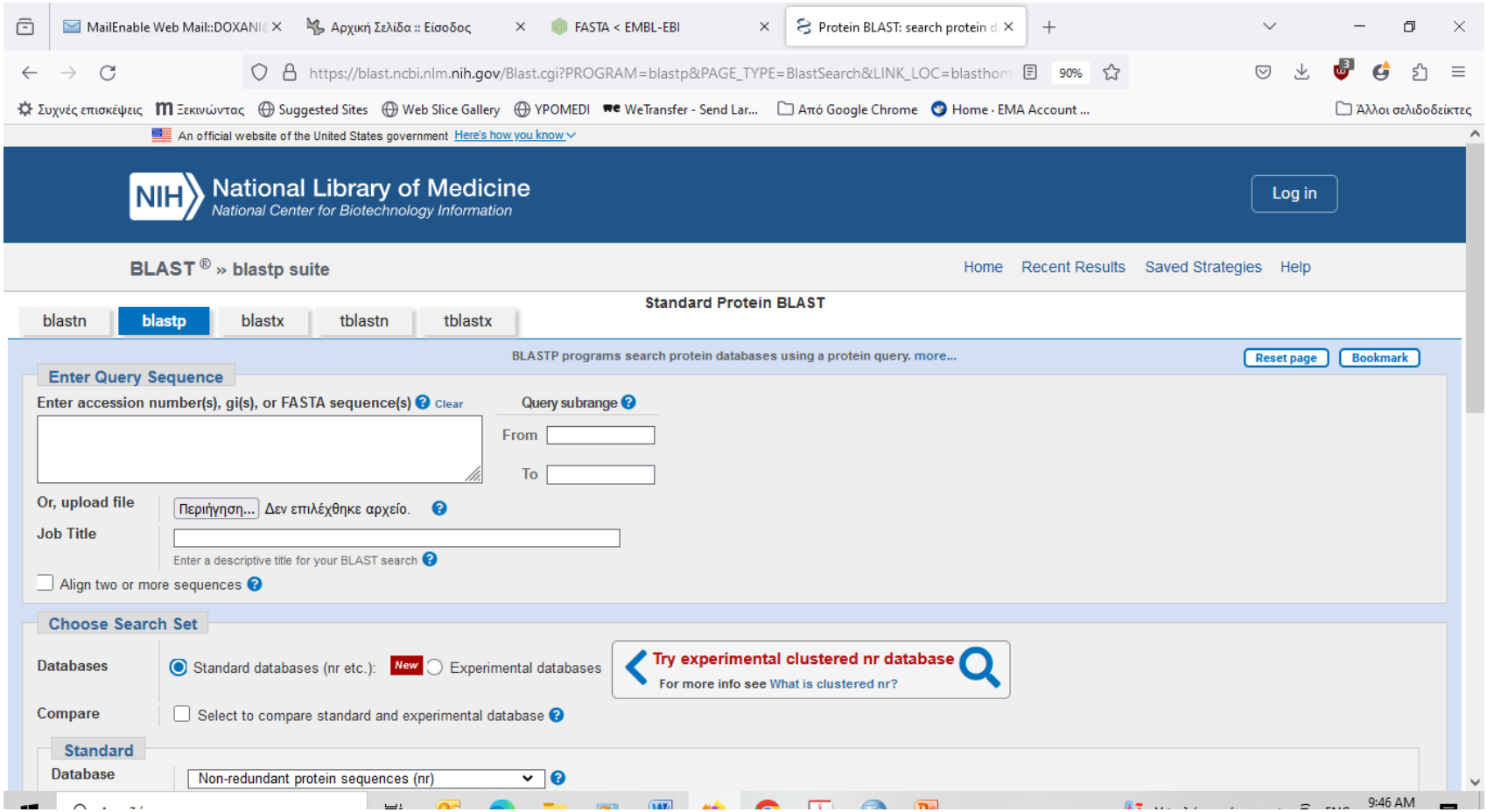
BLAST

Ανοίξτε το Internet Explorer και πληκτρολογήστε τη διεύθυνση: http://blast.ncbi.nlm.nih.gov/Blast.cgi. Μετά επιλέξτε “protein blast”




MailEnable Web Mail::DOXANI
Αρχική Σελίδα :: Είσοδος
FASTA < EMBL-EBI
Protein BLAST: search protein d
https://blast.ncbi.nlm.nih.gov/Blast.cgi?PROGRAM=blastp&PAGE_TYPE=BlastSearch&LINK_LOC=blasthom
90%
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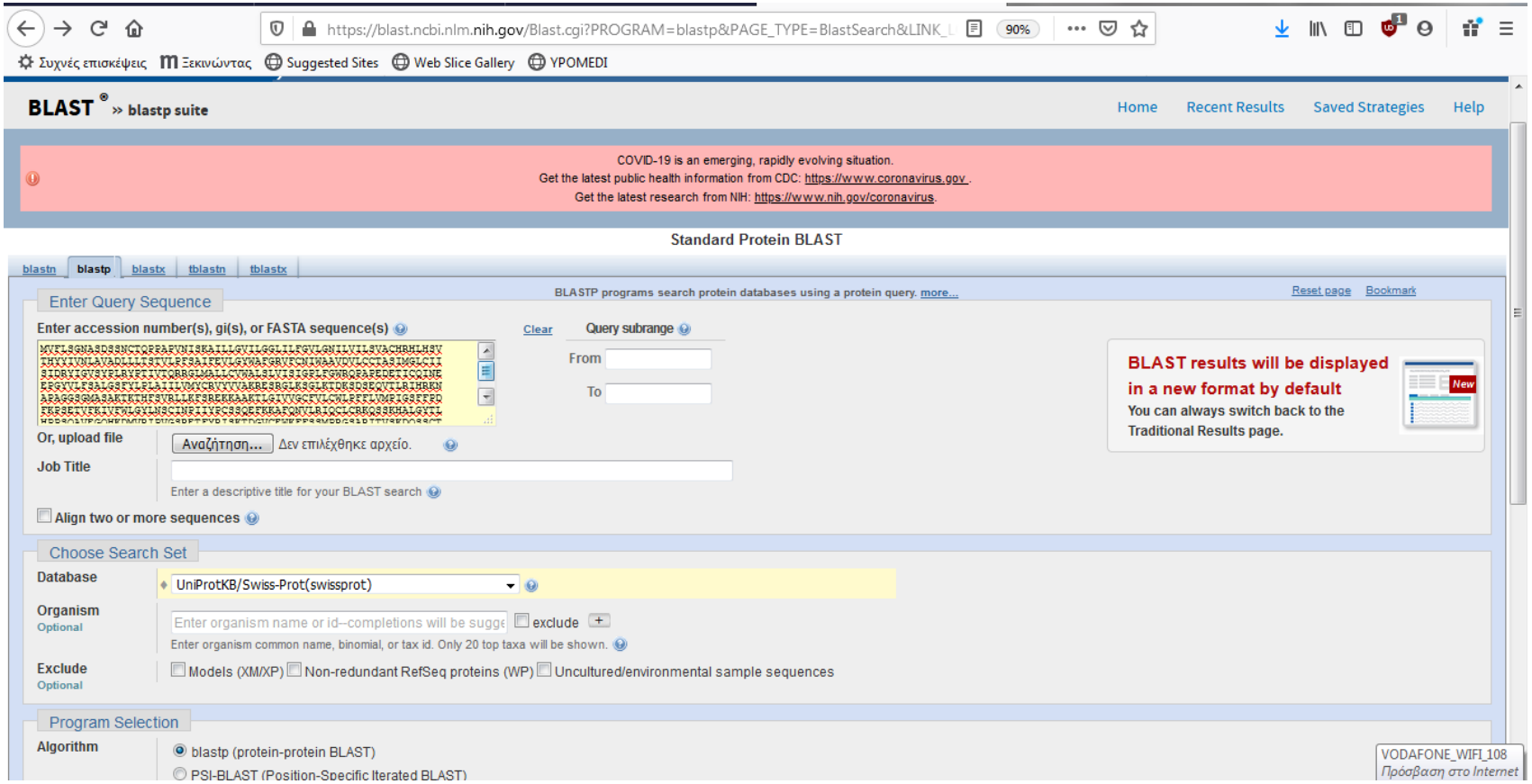
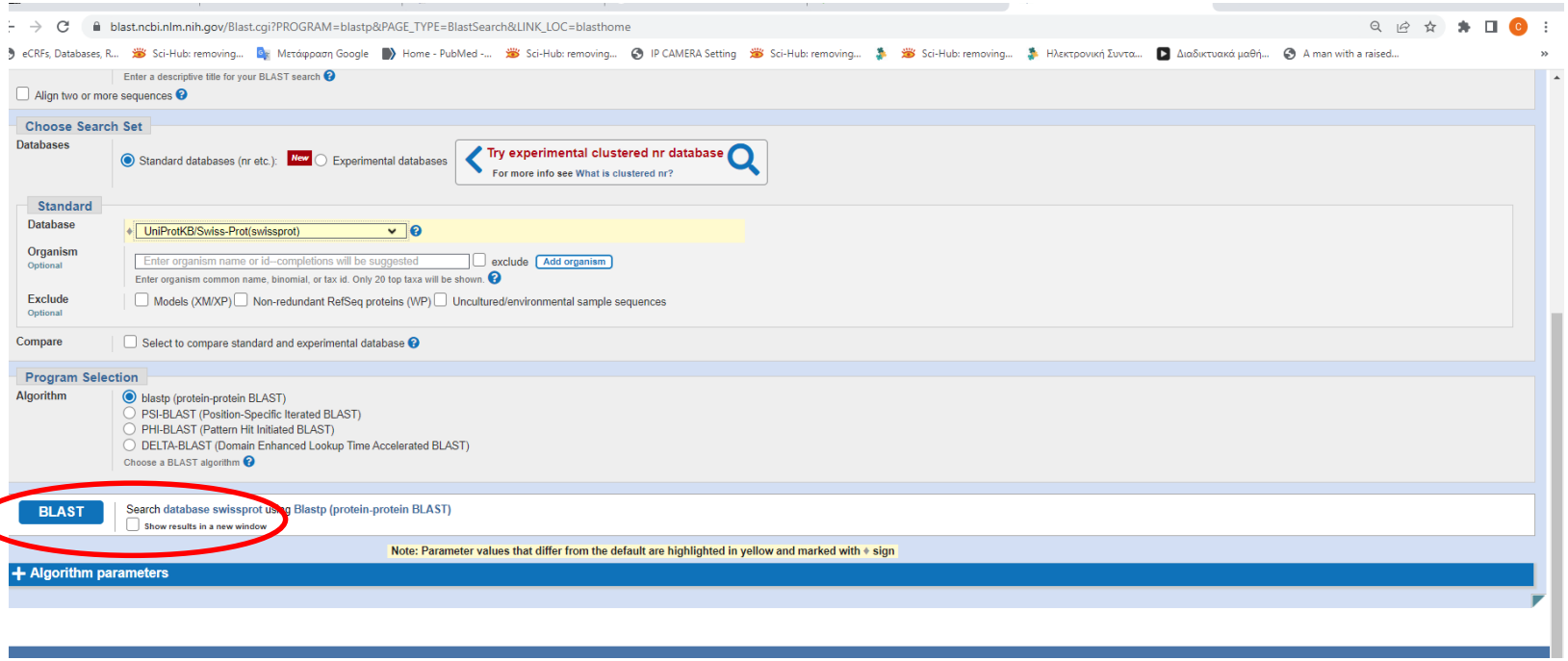
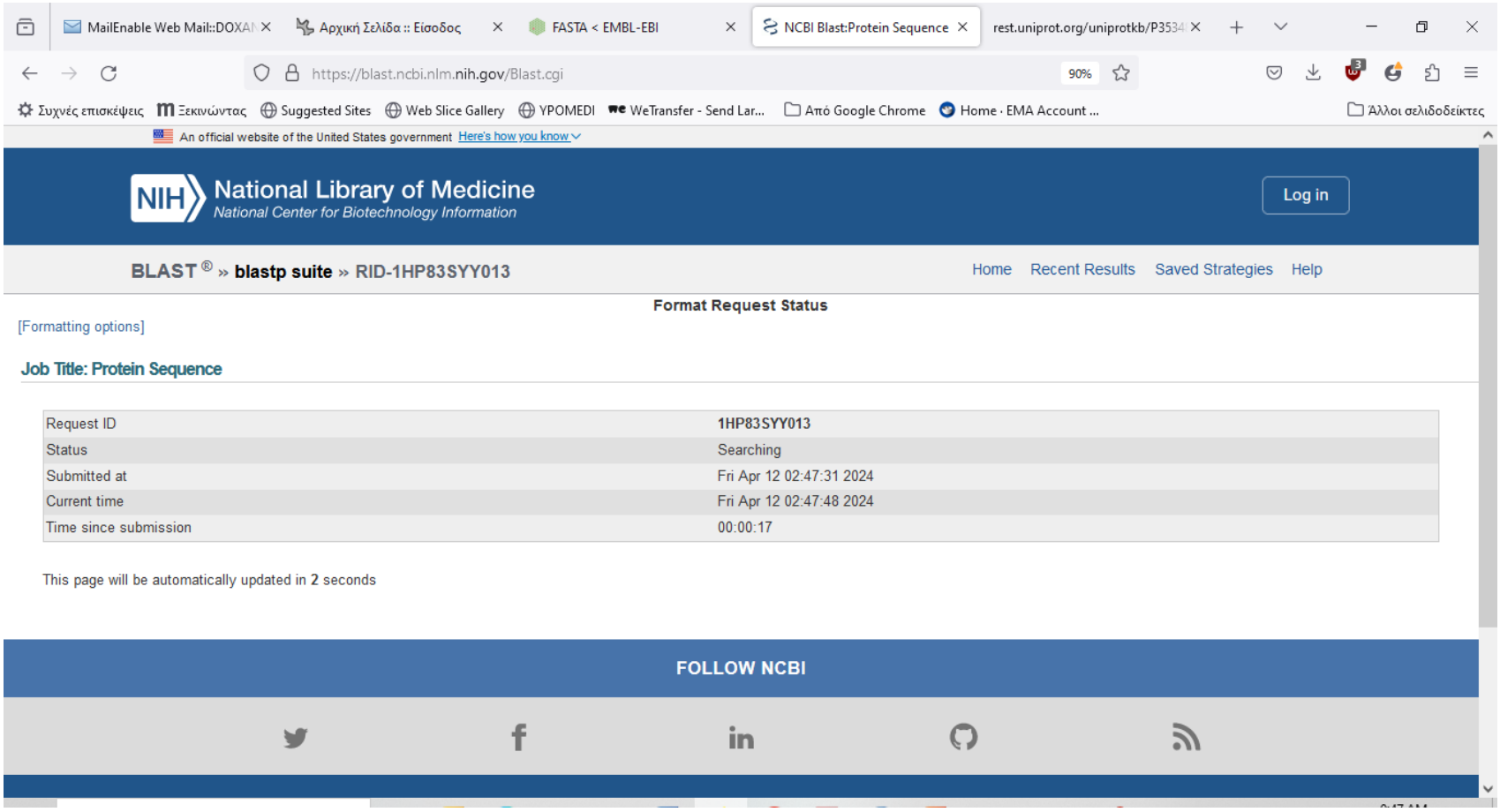
An official website of the United States government
Here's how you know
National Library of Medicine
National Center for Biotechnology Information
Log in
BLAST® » blastp suite
Home
Recent Results
Saved Strategies
Help
Standard Protein BLAST
blastn
blastp
blastx
tblastn
tblastx
BLASTP programs search protein databases using a protein query. more...
Reset page
Bookmark
Enter Query Sequence
Enter accession number(s), gi(s), or FASTA sequence(s)
Clear
Query subrange
From
To
Or, upload file
Περιήγηση...
Δεν επιλέχθηκε αρχείο.
Job Title
Enter a descriptive title for your BLAST search
Align two or more sequences
Choose Search Set
Databases
Standard databases (nr etc.):
New
Experimental databases
Try experimental clustered nr database
For more info see What is clustered nr?
Compare
Select to compare standard and experimental database
Standard
Database
Non-redundant protein sequences (nr)
9:46 AM

Επιλέγουμε την αλληλουχία ADA1_HUMAN σε FASTA μορφή και την επικολλούμε



Και επιλέγουμε BLAST

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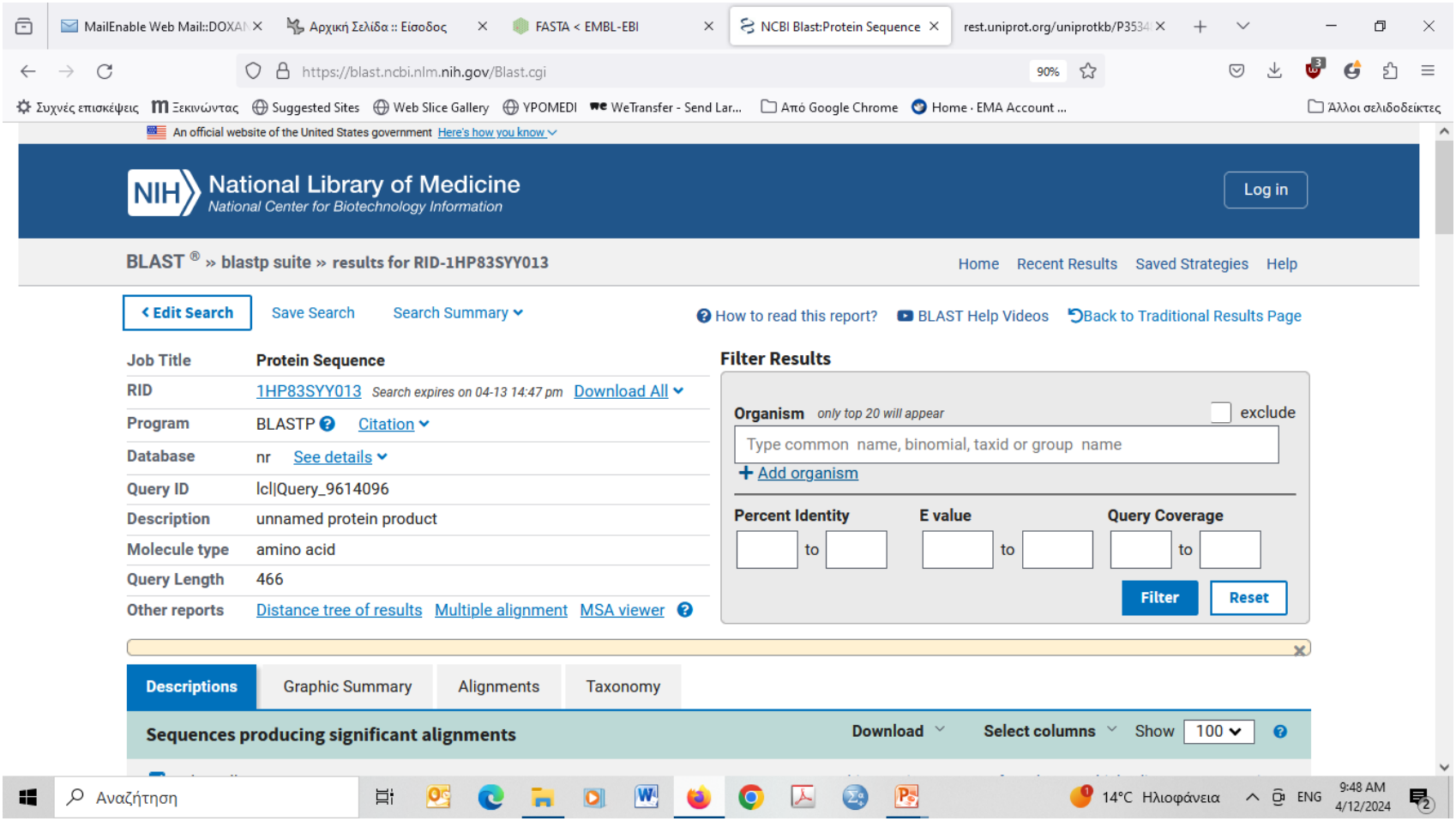
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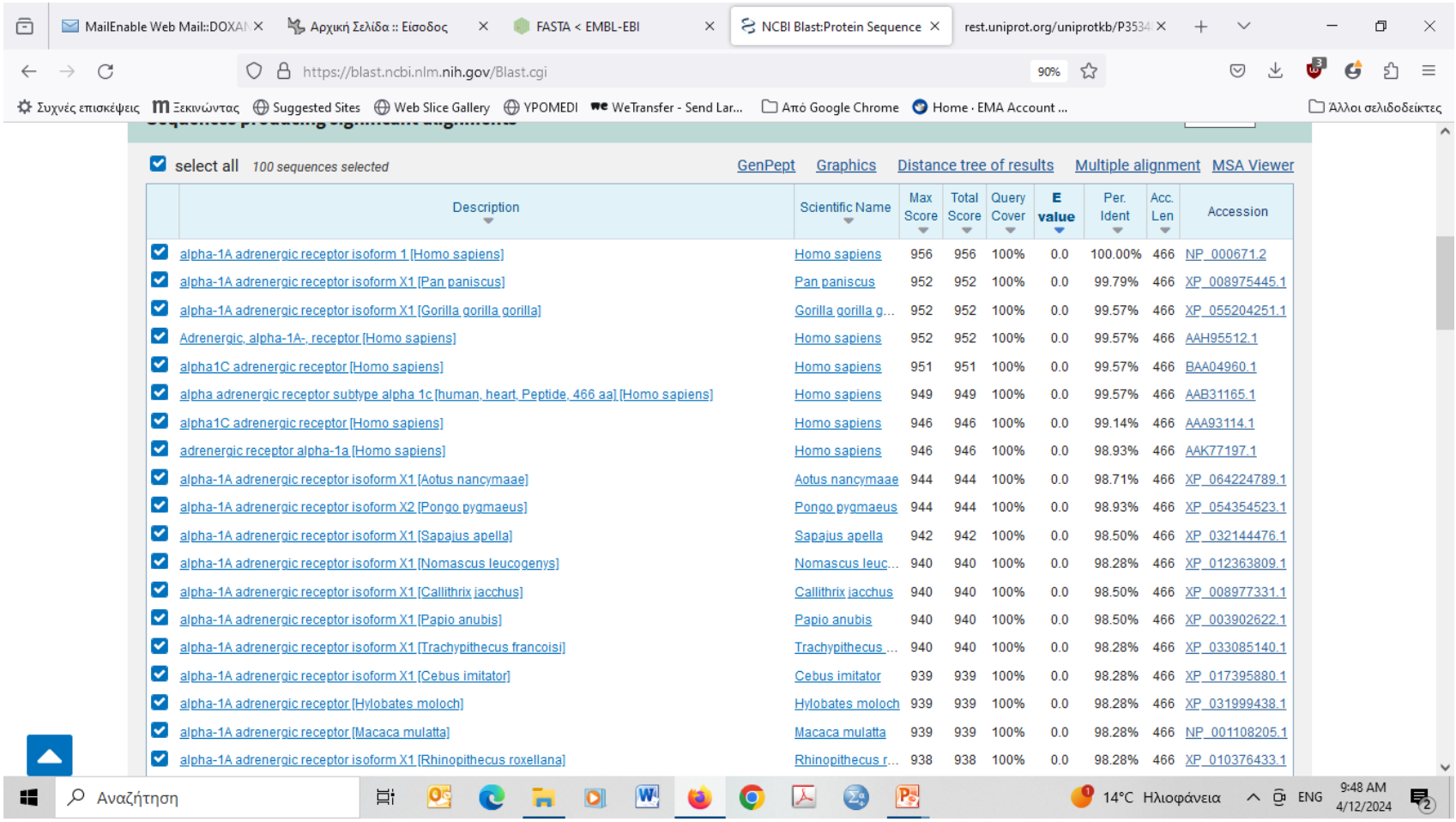
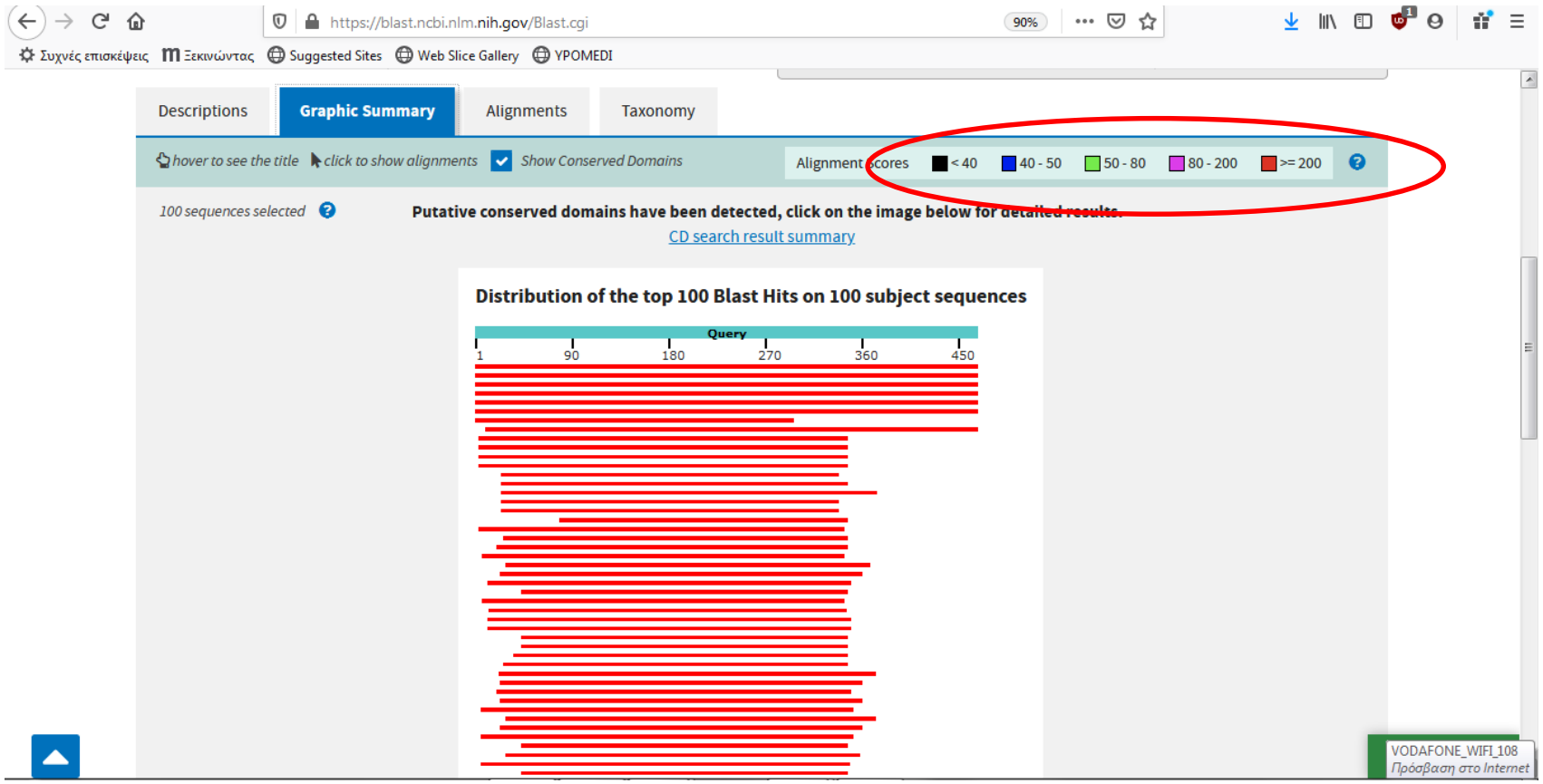
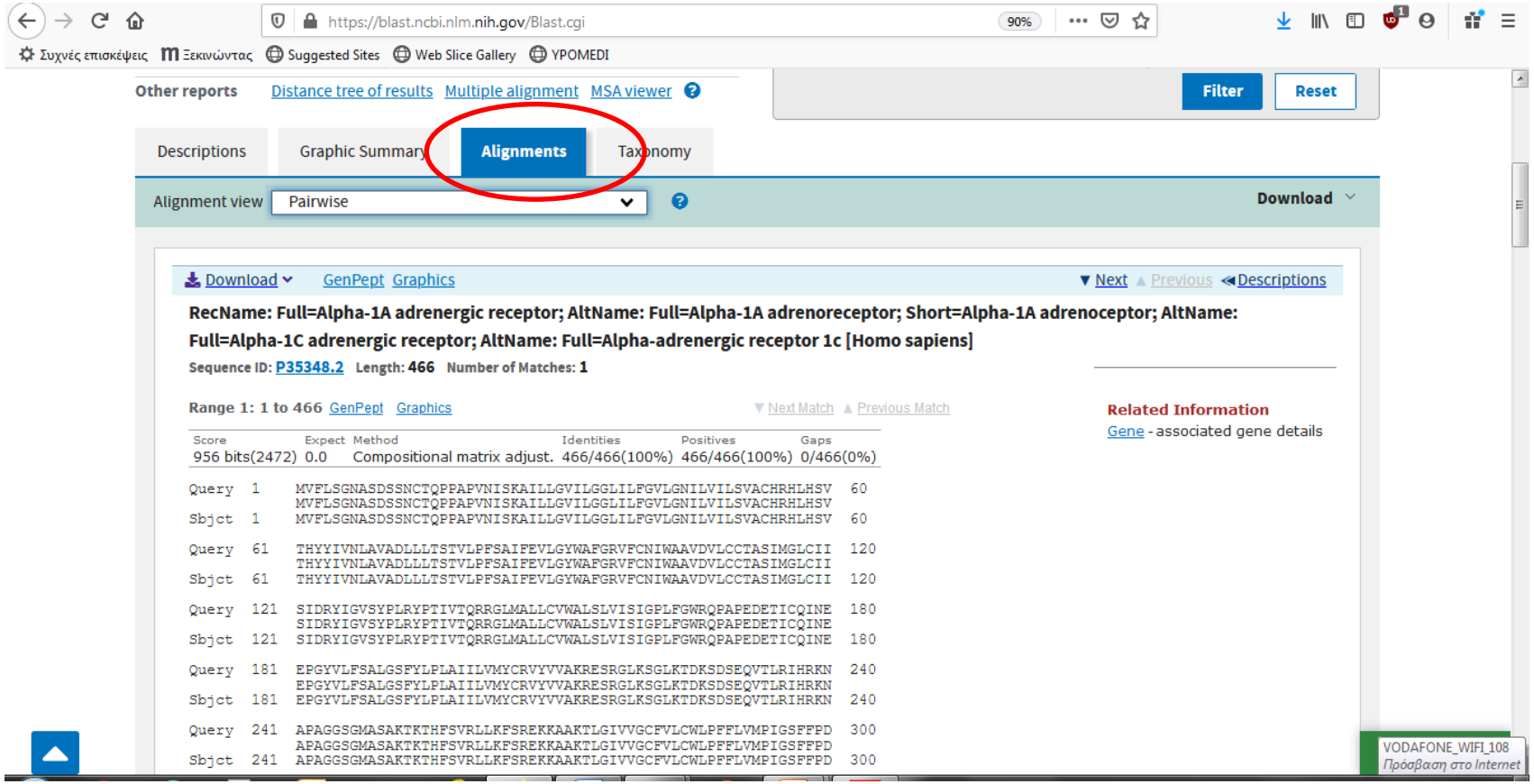
Η αντιστοίχιση της αλληλουχίας μας…



Description	Scientific Name	Max Score	Total Score	Query Cover	E value	Per. Ident	Acc. Len	Accession
alpha-1A adrenergic receptor isoform 1 [Homo sapiens]	Homo sapiens	956	956	100%	0.0	100.00%	466	NP_000671.2
alpha-1A adrenergic receptor isoform X1 [Pan paniscus]	Pan paniscus	952	952	100%	0.0	99.79%	466	XP_008975445.1
alpha-1A adrenergic receptor isoform X1 [Gorilla gorilla gorilla]	Gorilla gorilla g...	952	952	100%	0.0	99.57%	466	XP_055204251.1
Adrenergic, alpha-1A-, receptor [Homo sapiens]	Homo sapiens	952	952	100%	0.0	99.57%	466	AAH95512.1
alpha1C adrenergic receptor [Homo sapiens]	Homo sapiens	951	951	100%	0.0	99.57%	466	BAA04960.1
alpha adrenergic receptor subtype alpha 1c [human, heart, Peptide, 466 aa] [Homo sapiens]	Homo sapiens	949	949	100%	0.0	99.57%	466	AAB31165.1
alpha1C adrenergic receptor [Homo sapiens]	Homo sapiens	946	946	100%	0.0	99.14%	466	AAA93114.1
adrenergic receptor alpha-1a [Homo sapiens]	Homo sapiens	946	946	100%	0.0	98.93%	466	AAK77197.1
alpha-1A adrenergic receptor isoform X1 [Aotus nancymaae]	Aotus nancymaae	944	944	100%	0.0	98.71%	466	XP_064224789.1
alpha-1A adrenergic receptor isoform X2 [Pongo pygmaeus]	Pongo pygmaeus	944	944	100%	0.0	98.93%	466	XP_054354523.1
alpha-1A adrenergic receptor isoform X1 [Sapajus apella]	Sapajus apella	942	942	100%	0.0	98.50%	466	XP_032144476.1
alpha-1A adrenergic receptor isoform X1 [Nomascus leucogenys]	Nomascus leuc...	940	940	100%	0.0	98.28%	466	XP_012363809.1
alpha-1A adrenergic receptor isoform X1 [Callithrix jacchus]	Callithrix jacchus	940	940	100%	0.0	98.50%	466	XP_008977331.1
alpha-1A adrenergic receptor isoform X1 [Papio anubis]	Papio anubis	940	940	100%	0.0	98.50%	466	XP_003902622.1
alpha-1A adrenergic receptor isoform X1 [Trachypithecus francoisi]	Trachypithecus ...	940	940	100%	0.0	98.28%	466	XP_033085140.1
alpha-1A adrenergic receptor isoform X1 [Cebus imitator]	Cebus imitator	939	939	100%	0.0	98.28%	466	XP_017395880.1
alpha-1A adrenergic receptor [Hylobates moloch]	Hylobates moloch	939	939	100%	0.0	98.28%	466	XP_031999438.1
alpha-1A adrenergic receptor [Macaca mulatta]	Macaca mulatta	939	939	100%	0.0	98.28%	466	NP_001108205.1
alpha-1A adrenergic receptor isoform X1 [Rhinopithecus roxellana]	Rhinopithecus r...	938	938	100%	0.0	98.28%	466	XP_010376433.1

Επιλέγοντας Graphic Summary

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Taxonomy
Alignment view
Pairwise
Download
Download
GenPept
Graphics
Next
Previous
Descriptions
RecName: Full=Alpha-1A adrenergic receptor; AltName: Full=Alpha-1A adrenoreceptor; Short=Alpha-1A adrenoceptor; AltName: Full=Alpha-1C adrenergic receptor; AltName: Full=Alpha-adrenergic receptor 1c [Homo sapiens]
Sequence ID: P35348.2 Length: 466 Number of Matches: 1
Range 1: 1 to 466 GenPept Graphics
Next Match
Previous Match
Related Information
Gene - associated gene details
Score Expect Method Identities Positives Gaps
956 bits(2472) 0.0 Compositional matrix adjust. 466/466(100%) 466/466(100%) 0/466(0%)
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Sbjct 241 APAGGSGMASAKTKTHFSVRLLKFSREKKAAKTLGIVVGCFVLCWLPFFLVMPIGSFFPD 300
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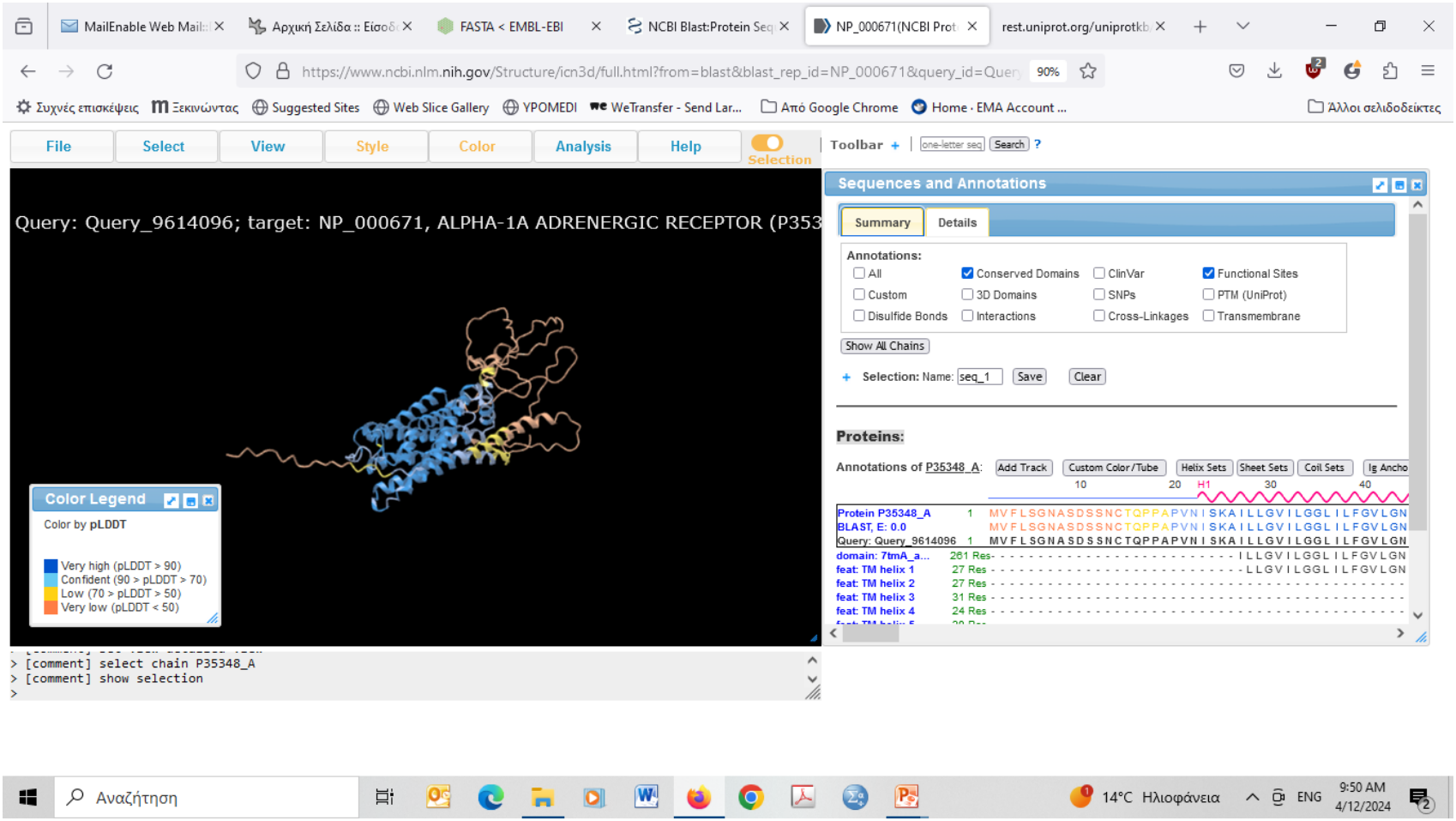
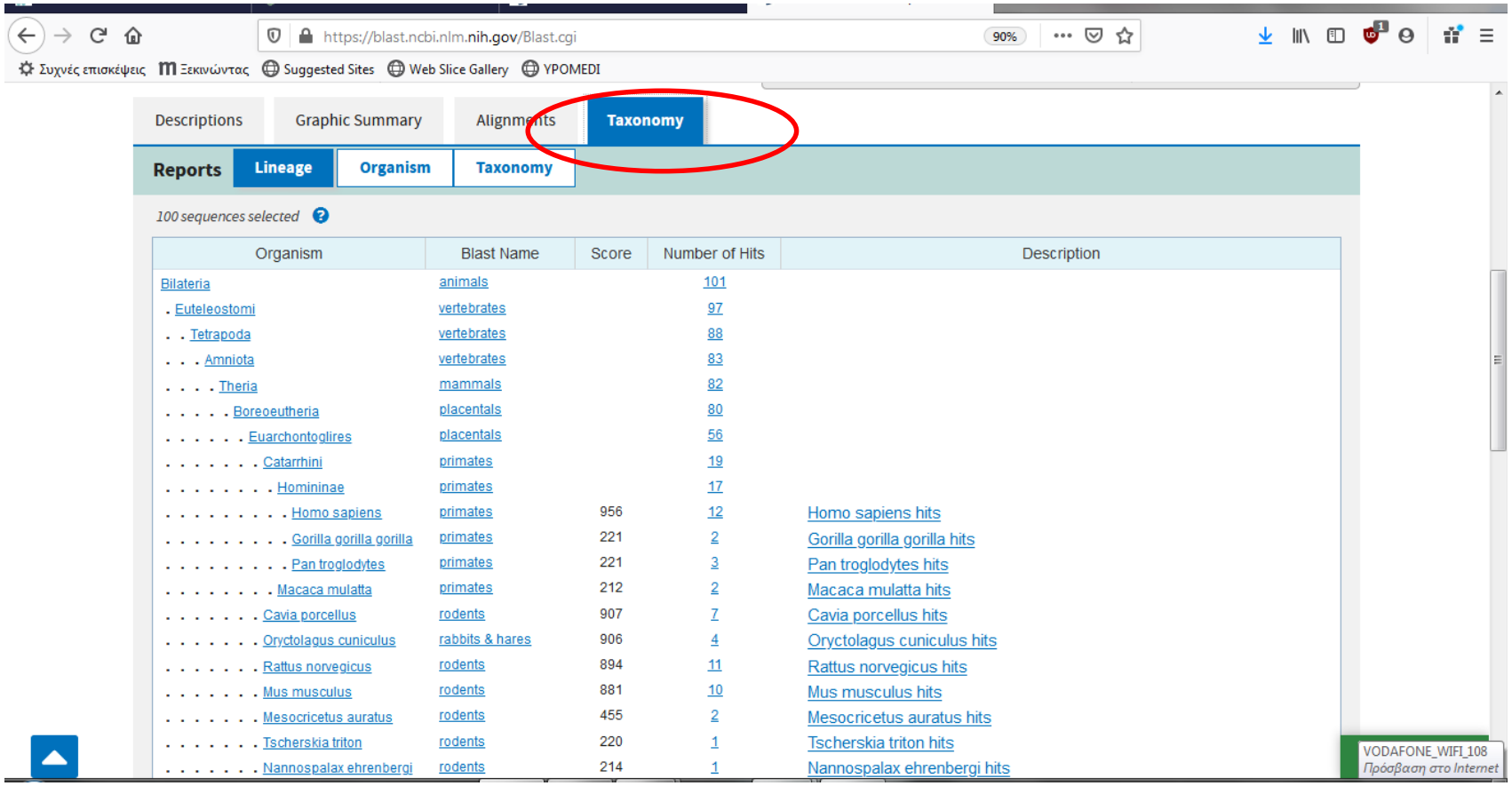
Αν κάνουμε κλικ πάνω στην εικόνα αυτή

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Number of Hits
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Bilateria animals 101
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