

Allows for easy differentiation between similar proteins based on the UnigeneID

A protein database for rapid gene identification

<FEATURE>
 In use addGeneNr, appending the Unigene ID Appending the Unigene ID to the beginning of each NCNInr description lets you distinguish at a glance proteins that are alternative splicing variants from those originating from different gene families.

ADVANTAGE

The NCBI nr database contains sequences for both alternative splicing variants of the same gene and those from different genetic families. With a long list of homologous search results, it is impossible to tell meaningful differences at a glance.

Matched proteins

Query	Observed	Mr(expt)	Mr(calc)	Delta	Miss	Score	Expect	Rank	Peptide
461	729.49	728.48	727.89	0.59	0	31	1.1	1	K.IQLVK.E
1771	615.08	1228.15	1228.31	-0.16	0	65	0.00033	1	R.VEILANDQGNR.I
1838	621.56	1241.10	1240.43	0.68	1	55	0.0033	1	K.MKEIAEAYLQK.K
2222	659.53	1317.05	1316.41	0.64	0	65	0.00036	1	R.NELESYAYSLK.N
2646	700.14	1398.25	1397.61	0.64	0	32	0.62	1	K.ELEETVQPIISK.L
3488	758.20	1514.37	1512.73	1.65	1	89	1.2e-006	1	R.AKFEELNMDLFR.S 3605
3664	769.75	1537.47	1536.79	0.69	0	65	0.00033	1	K.TFAPEEISAHVLTQ.H
4083	796.01	1590.01	1588.76	1.26	1	108	1.8e-008	1	K.KSDIDEIVLVGGSTR.I
4195	803.29	1604.57	1604.80	-0.23	0	83	5.2e-006	1	K.TKPEIQVDIGGGQYK.T
4622	830.77	1659.52	1659.88	-0.36	0	49	0.014	1	R.IINEPTAAAIAYGLDK.R
4819	839.95	1677.89	1677.77	0.12	0	78	1.0e-005	1	K.NQLFSHPETVFDAR.K
6042	900.99	1815.97	1815.06	-0.10	1	73	4.4e-005	1	R.IINEPTAAAIAYGLDKR.E
6070	910.69	1819.36	1818.89	0.48	0	33	0.52	2	K.LYGSAGPPPTGDETAEK.D
6217	919.53	1837.05	1836.99	0.05	0	55	0.003	1	K.SQIFSTASDHQPTVIK.V
7170	968.10	1934.19	1934.16	0.03	0	54	0.004	1	K.DNHLLETGDTLQIDPAPR.O
7519	988.75	1975.49	1975.07	0.41	0	73	4e-005	1	K.IEWELESHQDADIDEK.A
8895	1083.67	2165.31	2165.27	0.05	0	34	0.35	1	R.IELESYEGEDFSETLIR.A
8972	1088.83	2175.64	2176.25	-0.61	1	33	0.49	1	K.LYGSAGPPPTGDETAEKDEL.-

Proteins matching the same set of peptides:
 gi|2896815 Mass: 53631 Score: 646 Queries matched: 13
 /uid=Hs.180414 heat shock 70kDa protein 8 isoform 2 variant [Homo sapiens]

Both results are from the AHSP70 gene, but the differing UnigeneID tells us at a glance that these are not splicing variants, but come from different gene families.

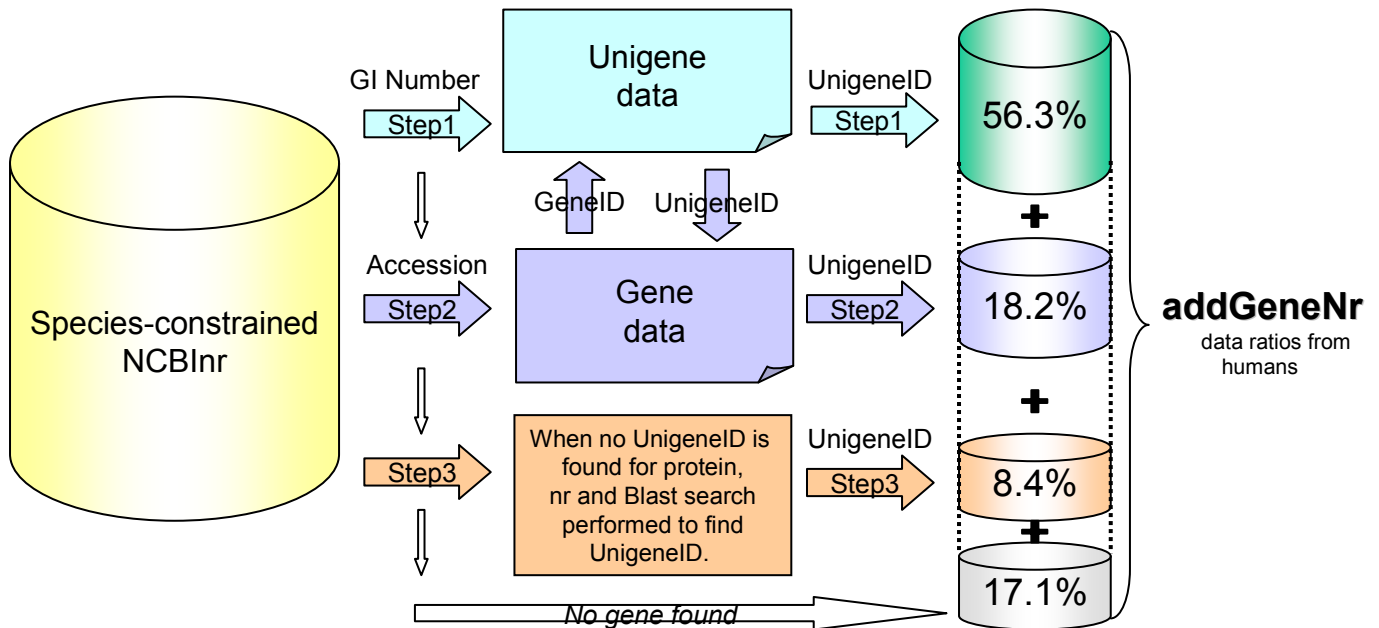
※Above: MatrixScience's Mascot search engine

Try out !!

Free Download <http://pronem.maze.co.jp/>

addGeneNr DATABASE CONSTRUCTION

GI number and UnigenID are found for each sequence in the NCBI nr database and the UnigenID appended to the front of the nr description



◆ HOW TO SETUP

It can set up in house server of the protein search engine, can utilize. Setup is possible with simple job.

◆ UPDETA & MORE INFORMATON

addGeneNr is free for use on an ongoing basis.



<http://pronem.maze.co.jp/en/>

- we have other types of a highly useful proteomics database

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