

## **Supplementary Material**

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## **Supplementary S1: Summary of the methods**

A summary of the methods behind all OpenProt features presented in the initial release was published in the OpenProt 2021 update [1]. We present below some minor modifications in this 2024 update resulting from new annotation releases and the use of the latest version for all software. We also present new developments.

### **1. Summary of previous methods with minor modifications**

- a. **OpenProt ORFeome, reference protein, novel isoform, alternative protein** - OpenProt retrieves the transcriptome from both NCBI RefSeq [2] (release 217) and Ensembl [3] (release 106) and predicts ORFs from a 3-frames in silico translation using EMBOSS Transeq (6.6.0) [4]. All ORFs with an ATG initiating codon and a minimal length of 30 codons are annotated and constitutes the OpenProt ORFeome. After in silico translation, three categories of proteins are annotated:
  - i. A reference protein (or RefProt) is a protein matching a NCBI RefSeq [2], Ensembl [3] or UniProt [5] (release\_2022\_06) protein entry. A RefProt is identified with the accession number from NCBI RefSeq, Ensembl and/or UniProt.
  - ii. A novel isoform is a protein encoded in the same gene as a RefProt with at least one of the two following features: (a) over 80 % of protein sequence identity with the RefProt over 50% of the length using Basic Local Alignment Search Tool (BLAST); (b) identical genomic coordinates of start or end codon with a sequence identity (EMBOSS Matcher PAM10 matrix score  $\leq 100$ ) over 20% of the length of the RefProt. A novel isoform is identified with a specific accession number starting with II\_.
  - iii. An alternative protein (or AltProt) does not have any significant similarity with a RefProt and is identified with a specific accession number starting with IP\_.
- b. **Ribosome profiling data reanalysis** - Ribo-seq datasets are downloaded from the Gene Omnibus platform [6] and reanalyzed using the PRICE workflow [7] run with default parameters, except for the FDR set at 1 % (instead of 10%). After filtering out ribosomal RNA reads, PRICE generates a list of ORF candidates based on likely codons. A stringent 1% FDR filter is applied for highly confident translation events.
- c. **Conservation analysis** - Protein sequence homology is assessed using an InParanoid-like workflow [1], distinguishing orthologs (homologous sequences from different species) from paralogs (homologous sequences from the same species but different genes). Orthologs are identified through all-vs-all BLAST searches between species and within the same species for paralogs. Orthology relationships are established with a bit-score above 40 and an overlap exceeding

50% of the queried sequence.

- d. **Protein functional domain** - All proteins annotated on OpenProt are scanned for the presence of known functional signatures using InterProScan (5.61-93.0) [8] with the default parameters. Domain predictions as well as gene ontology (GO) and pathway annotations are reported if significant (e-value < 10<sup>-3</sup>).

## 2. Updated mass spectrometry data analysis pipeline in the OpenProt

OpenProt re-analyzes mass spectrometry (MS) datasets to gather evidence of expression for every protein annotated in the OpenProt database, *i.e.* RefProts, AltProts and Isoforms. The updated pipeline is described in the main text. It is important to note that when a peptide matches both an AltProt or a novel isoform and a RefProt, it is assigned to the RefProt only.

## 3. Spectral viewer

A bespoke spectrum viewer was implemented in JavaScript to visualize all spectra that resulted from the mass spectrometry re-analysis. The peak annotations for each spectrum are from the PeptideShaker report of the corresponding analysis.

## 4. Integration of other predictions

- a. Protein structure  
MMseqs2 [9] was used to generate large-scale multiple alignment sequences (MSAs). These MSAs serve as inputs for the AlphaFold network, a feature provided by ColabFold with default settings [10]. The installer script was installed within a Singularity image and executed on supercomputers managed by Calcul Québec and the Digital Research Alliance of Canada. For proteins with multiple sequence alignments of less than 30, we utilized OmegaFold the first computational approach that achieved the successful prediction of high-resolution protein structures solely from a single primary sequence [11].
- b. Subcellular localization  
The DeepLoc 2.0 [12] program was obtained from [https://services.healthtech.dtu.dk/cgi-bin/sw\\_request?software=deeploc&version=2.0&packageversion=2.0&platform=All](https://services.healthtech.dtu.dk/cgi-bin/sw_request?software=deeploc&version=2.0&packageversion=2.0&platform=All), installed in an Apptainer container and executed. We used the high-quality (slow) and short output settings. The fasta file generated by OpenProt for all species was given as the input and the csv file of the output is displayed directly on the website.
- c. Intrinsic disorder  
A Docker image of the fIDPnn disorder and disorder function predictor [13]

(<https://gitlab.com/sina.ghadermarzi/fldpnn/-/tree/master>) was utilized and executed within a Docker container. Input files in Fasta format containing the protein sequences were employed. The resulting output comprises a graph that illustrates the fIDPnn score, which is a measure of the probability of disorder (with a threshold of 0.3), along with potential functions such as protein binding, DNA binding, RNA binding, and acting as a linker.

d. Short linear motifs (SLiMs)

We downloaded the tsv file containing all the ELM database Classes using the ELM API ([http://elm.eu.org/elms/elms\\_index.tsv](http://elm.eu.org/elms/elms_index.tsv)). SLiMs were predicted using the regular expression of the corresponding ELM class. Since this method tends to return a high amount of false positive and true SLiMs are mostly located in disordered regions of a protein [14], we used fIDPnn disorder predictions to discard all predicted SLiMs containing at least one residue predicted as ordered.

e. Genotype-Tissue Expression (GTEx)

The data used for the analyses described in this manuscript were obtained from: the GTEx Portal on 07/20/2023 [15]. Expression data from all samples were kept structured at the transcript level rather than aggregated by genes in order to obtain transcript level distributions.

## References

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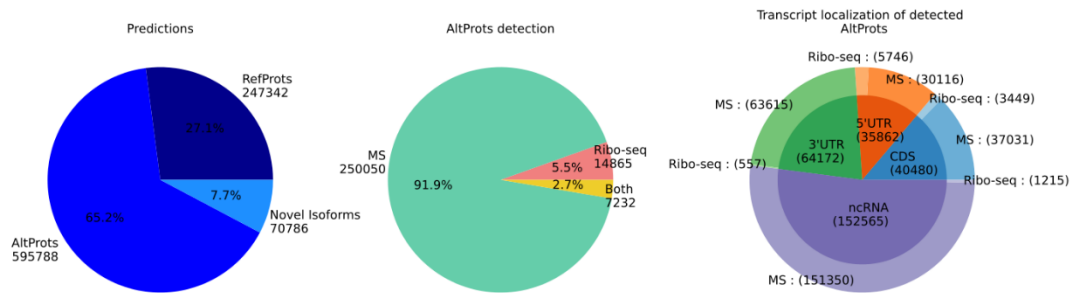
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**Supplementary S2: General statistics per species for OpenProt v2.0**

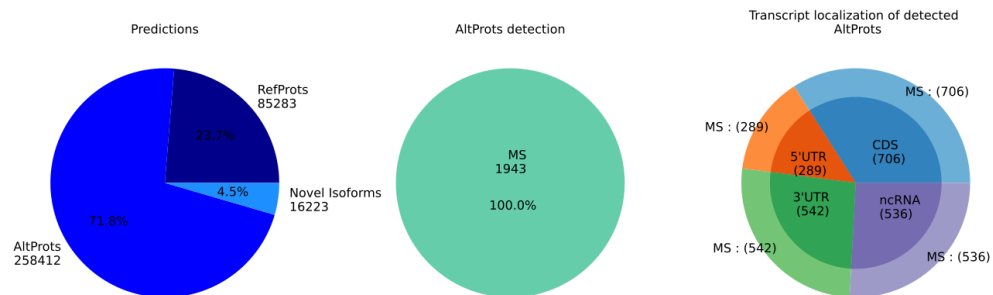
Here are the summary statistics for all species supported in OpenProt v2.0: [Homo sapiens](#), [Pan troglodytes](#), [Mus musculus](#), [Rattus norvegicus](#), [Bos taurus](#), [Ovis aries](#), [Danio rerio](#), [Drosophila melanogaster](#), [Caenorhabditis elegans](#) and [Saccharomyces cerevisiae](#).

Legend for the pie charts: ncRNA = non-coding RNA; UTR = untranslated region of an mRNA; MS = mass spectrometry.

\*\*\* OpenProt v2.0 general statistics in *Homo sapiens* \*\*\*

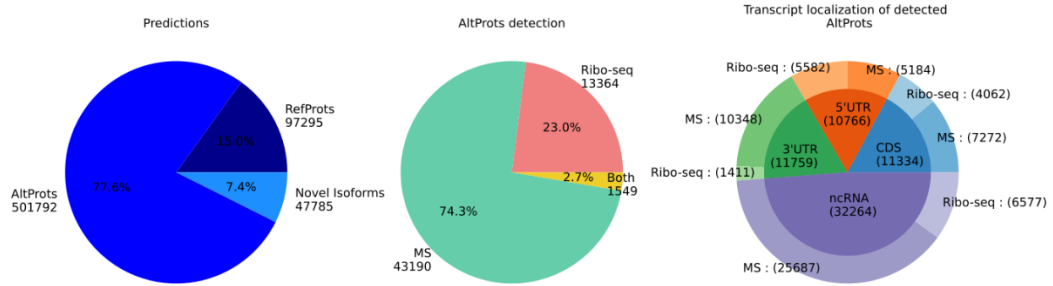


\*\*\* OpenProt v2.0 general statistics in *Pan troglodytes* \*\*\*

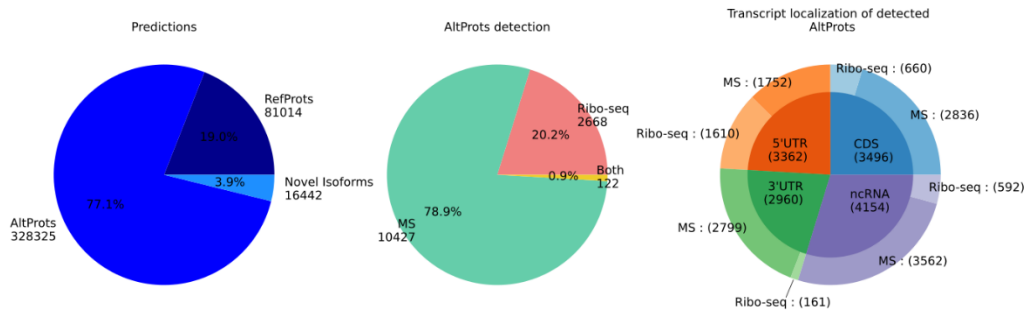


Please note that no ribosome profiling data was available for *Pan troglodytes*.

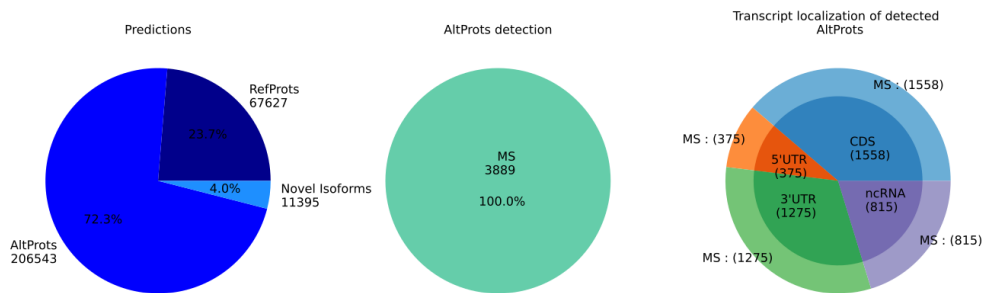
\*\*\* OpenProt v2.0 general statistics in *Mus musculus* \*\*\*



\*\*\* OpenProt v2.0 general statistics in *Rattus norvegicus* \*\*\*

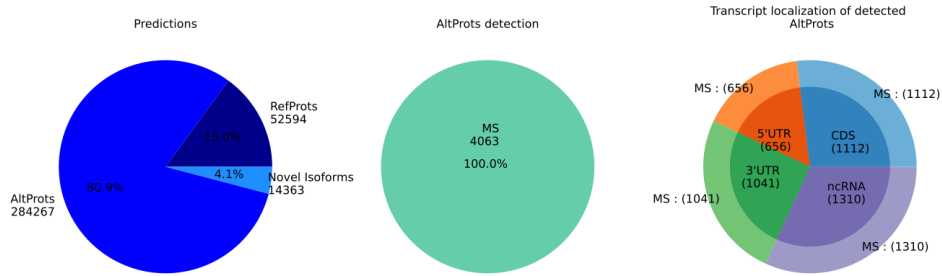


\*\*\* OpenProt v2.0 general statistics in *Bos taurus* \*\*\*



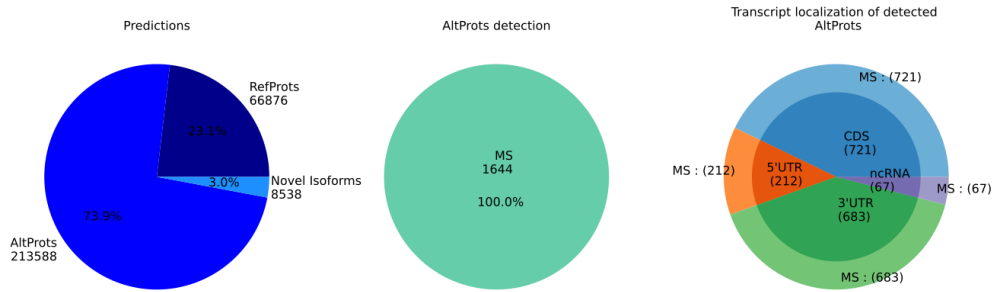
Please note that no ribosome profiling data was available for *Bos taurus*.

\*\*\* OpenProt v2.0 general statistics in *Ovis aries* \*\*\*



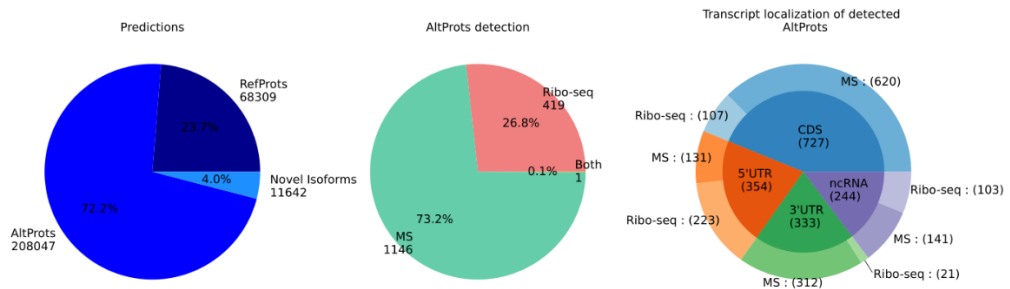
Please note that no ribosome profiling data was available for *Ovis aries*.

\*\*\* OpenProt v2.0 general statistics in *Xenopus tropicalis* \*\*\*



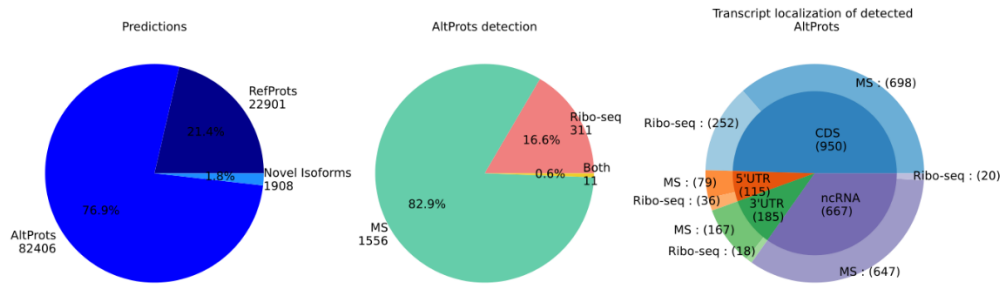
Please note that no ribosome profiling data was available for *Xenopus tropicalis*.

\*\*\* OpenProt v2.0 general statistics in *Danio rerio* \*\*\*

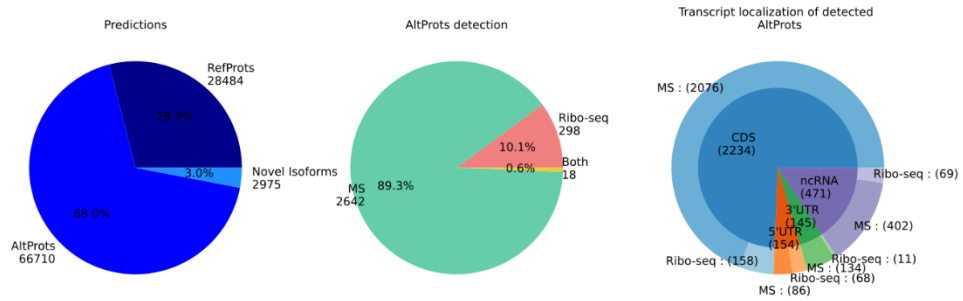




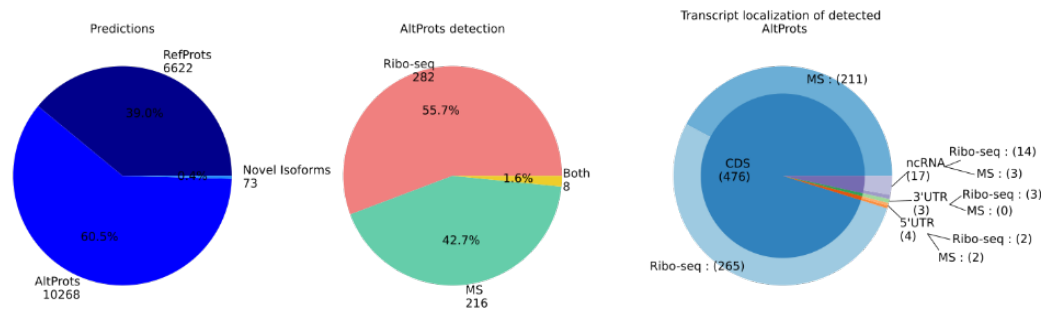
\*\*\* OpenProt v2.0 general statistics in *Drosophila melanogaster* \*\*\*



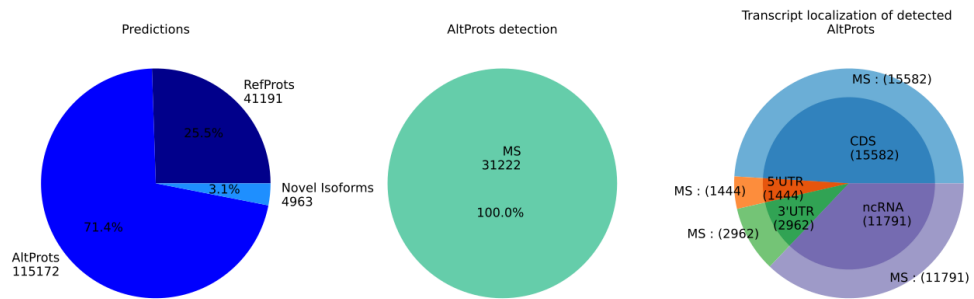
\*\*\* OpenProt v2.0 general statistics in *Caenorhabditis elegans* \*\*\*



\*\*\* OpenProt v2.0 general statistics in *Saccharomyces cerevisiae* **S288c** \*\*\*

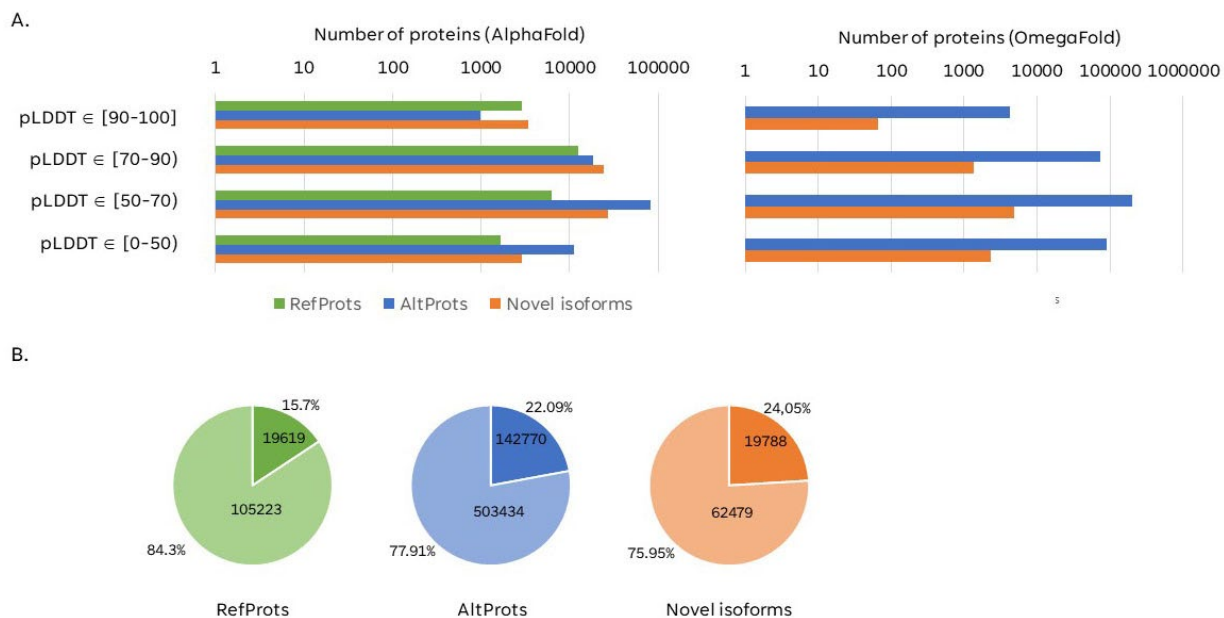


\*\*\* OpenProt v2.0 general statistics in *Arabidopsis Thaliana* \*\*\*



Please note that no ribosome profiling data was available for *Arabidopsis Thaliana*.

### Supplementary S3: protein structure and disorder predictions



(A) A significant number of human AltProts and novel isoforms display a high ( $90 > \text{pLDDT} > 70$ ) to very high ( $\text{pLDDT} > 90$ ) confidence score. Proteins with more than 30 or less than 30 multiple sequence alignments were analyzed with AlphaFold or OmegaFold, respectively. For RefProts, pLDDT scores were retrieved from the AlphaFold database. (B) Charts represent the fraction of proteins with at least one IDR (plain colour) or with no IDR (pale colour).

## Supplementary S4

*List of mass spectrometry and ribosome profiling studies incorporated in OpenProt v2.0*

List of the 101 **mass spectrometry** datasets incorporated in OpenProt v2.0 with the associated species and citation (PMID accession).

Species		Study ID	Data source	PMID
Arabidopsis	thaliana	PXD013868	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD013868">https://www.ebi.ac.uk/pride/archive/projects/PXD013868</a>	32188942
Bos	taurus	PXD001741	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD001741">https://www.ebi.ac.uk/pride/archive/projects/PXD001741</a>	25818294
Caenorhabditis	elegans	PXD015644	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD015644">https://www.ebi.ac.uk/pride/archive/projects/PXD015644</a>	31754102
Danio	rerio	PXD003455	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD003455">https://www.ebi.ac.uk/pride/archive/projects/PXD003455</a>	27696471
Danio	rerio	PXD004876	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD004876">https://www.ebi.ac.uk/pride/archive/projects/PXD004876</a>	27898262
Danio	rerio	PXD011929	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD011929">https://www.ebi.ac.uk/pride/archive/projects/PXD011929</a>	32284610
Danio	rerio	PXD006098	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD006098">https://www.ebi.ac.uk/pride/archive/projects/PXD006098</a>	28381614
Drosophila	melanogaster	PXD003944	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD003944">https://www.ebi.ac.uk/pride/archive/projects/PXD003944</a>	27956707
Drosophila	melanogaster	PXD001455	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD001455">https://www.ebi.ac.uk/pride/archive/projects/PXD001455</a>	25403936
Homo	Sapiens	PXD002815	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD002815">https://www.ebi.ac.uk/pride/archive/projects/PXD002815</a>	26496610
Homo	sapiens	PXD002516	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD002516">https://www.ebi.ac.uk/pride/archive/projects/PXD002516</a>	26892330
Homo	sapiens	PXD004710	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD004710">https://www.ebi.ac.uk/pride/archive/projects/PXD004710</a>	27801565
Homo	sapiens	PXD004242	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD004242">https://www.ebi.ac.uk/pride/archive/projects/PXD004242</a>	28007936
Homo	sapiens	TCGA_COCA	<a href="https://cptc-xfer.uis.georgetown.edu/publicData/Phase_II_Data/TCGA_Colorectal_Cancer_S_022/">https://cptc-xfer.uis.georgetown.edu/publicData/Phase_II_Data/TCGA_Colorectal_Cancer_S_022/</a>	25043054
Homo	sapiens	PXD003965	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD003965">https://www.ebi.ac.uk/pride/archive/projects/PXD003965</a>	28208246
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			<a href="#">002214</a>	
Homo	sapiens	CCLC_2020	<a href="https://portals.broadinstitute.org/cclc/about">https://portals.broadinstitute.org/cclc/about</a>	31978347
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Homo	sapiens	TCGA_OVCA	<a href="https://cptac-data-portal.georgetown.edu/cptac/s/S026">https://cptac-data-portal.georgetown.edu/cptac/s/S026</a>	27372738
Homo	sapiens	PXD000788	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD000788">https://www.ebi.ac.uk/pride/archive/projects/PXD000788</a>	24797263
Homo	sapiens	BioPlex_1	<a href="https://bioplex.hms.harvard.edu/download.php">https://bioplex.hms.harvard.edu/download.php</a>	26186194
Homo	sapiens	PXD003708	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD003708">https://www.ebi.ac.uk/pride/archive/projects/PXD003708</a>	27987026
Homo	sapiens	PXD003902	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD003902">https://www.ebi.ac.uk/pride/archive/projects/PXD003902</a>	28007913
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Homo	sapiens	PXD004541	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD004541">https://www.ebi.ac.uk/pride/archive/projects/PXD004541</a>	27827301
Homo	sapiens	PXD013647	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD013647">https://www.ebi.ac.uk/pride/archive/projects/PXD013647</a>	31513346
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Homo	sapiens	BioPlex_2	<a href="https://bioplex.hms.harvard.edu/download.php">https://bioplex.hms.harvard.edu/download.php</a>	28514442
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Homo	sapiens	PXD013338	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD013338">https://www.ebi.ac.uk/pride/archive/projects/PXD013338</a>	31213602
Homo	sapiens	PXD003967	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD003967">https://www.ebi.ac.uk/pride/archive/projects/PXD003967</a>	28208246
Homo	sapiens	PXD003811	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD003811">https://www.ebi.ac.uk/pride/archive/projects/PXD003811</a>	28062795
Homo	sapiens	PXD003531	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD003531">https://www.ebi.ac.uk/pride/archive/projects/PXD003531</a>	28355574
Homo	sapiens	PXD005210	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD005210">https://www.ebi.ac.uk/pride/archive/projects/PXD005210</a>	27794609
Homo	sapiens	PXD001994	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD001994">https://www.ebi.ac.uk/pride/archive/projects/PXD001994</a>	26832662
Homo	sapiens	PXD005123	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD005123">https://www.ebi.ac.uk/pride/archive/projects/PXD005123</a>	27892468
Homo	sapiens	PXD003971	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD003971">https://www.ebi.ac.uk/pride/archive/projects/PXD003971</a>	28208246
Homo	sapiens	PXD005276	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD005276">https://www.ebi.ac.uk/pride/archive/projects/PXD005276</a>	28237943
Homo	sapiens	PXD004859	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD004859">https://www.ebi.ac.uk/pride/archive/projects/PXD004859</a>	27976366
Homo	sapiens	PXD004796	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD004796">https://www.ebi.ac.uk/pride/archive/projects/PXD004796</a>	28071820
Homo	sapiens	PXD016433	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD016433">https://www.ebi.ac.uk/pride/archive/projects/PXD016433</a>	33453410

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Homo	sapiens	PXD003966	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD003966">https://www.ebi.ac.uk/pride/archive/projects/PXD003966</a>	28208246
Homo	sapiens	PXD005739	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD005739">https://www.ebi.ac.uk/pride/archive/projects/PXD005739</a>	28648085
Homo	sapiens	PXD010603	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD010603">https://www.ebi.ac.uk/pride/archive/projects/PXD010603</a>	30735395
Homo	sapiens	PXD004626	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD004626">https://www.ebi.ac.uk/pride/archive/projects/PXD004626</a>	27879288
Homo	sapiens	PXD017417	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD017417">https://www.ebi.ac.uk/pride/archive/projects/PXD017417</a>	32966781
Homo	sapiens	PXD010138	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD010138">https://www.ebi.ac.uk/pride/archive/projects/PXD010138</a>	31207390
Homo	sapiens	PXD000419	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD000419">https://www.ebi.ac.uk/pride/archive/projects/PXD000419</a>	24136357
Homo	sapiens	PXD015850	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD015850">https://www.ebi.ac.uk/pride/archive/projects/PXD015850</a>	31614365
Mus	musculus	PXD000288	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD000288">https://www.ebi.ac.uk/pride/archive/projects/PXD000288</a>	25616865
Mus	musculus	PXD001597	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD001597">https://www.ebi.ac.uk/pride/archive/projects/PXD001597</a>	26227174
Mus	musculus	PXD003155	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD003155">https://www.ebi.ac.uk/pride/archive/projects/PXD003155</a>	26850065
Mus	musculus	PXD002156	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD002156">https://www.ebi.ac.uk/pride/archive/projects/PXD002156</a>	26080680
Mus	musculus	PXD001250	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD001250">https://www.ebi.ac.uk/pride/archive/projects/PXD001250</a>	26523646
Mus	musculus	PXD004072	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD004072">https://www.ebi.ac.uk/pride/archive/projects/PXD004072</a>	27188442
Mus	musculus	PXD002152	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD002152">https://www.ebi.ac.uk/pride/archive/projects/PXD002152</a>	27302655
Mus	musculus	PXD001792	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD001792">https://www.ebi.ac.uk/pride/archive/projects/PXD001792</a>	26280412
Mus	musculus	PXD005312	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD005312">https://www.ebi.ac.uk/pride/archive/projects/PXD005312</a>	28066266
Mus	musculus	PXD003860	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD003860">https://www.ebi.ac.uk/pride/archive/projects/PXD003860</a>	27432266
Mus	musculus	PXD004612	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD004612">https://www.ebi.ac.uk/pride/archive/projects/PXD004612</a>	28071813
Mus	musculus	PXD017284	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD017284">https://www.ebi.ac.uk/pride/archive/projects/PXD017284</a>	33257503

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Mus	musculus	PXD001293	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD001293">https://www.ebi.ac.uk/pride/archive/projects/PXD001293</a>	25504905
Mus	musculus	PXD000666	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD000666">https://www.ebi.ac.uk/pride/archive/projects/PXD000666</a>	25193168
Mus	musculus	PXD005635	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD005635">https://www.ebi.ac.uk/pride/archive/projects/PXD005635</a>	28345880
Mus	musculus	PXD011890	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD011890">https://www.ebi.ac.uk/pride/archive/projects/PXD011890</a>	30901149
Mus	musculus	PXD003442	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD003442">https://www.ebi.ac.uk/pride/archive/projects/PXD003442</a>	26900923
Mus	musculus	PXD003555	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD003555">https://www.ebi.ac.uk/pride/archive/projects/PXD003555</a>	27490109
Mus	musculus	PXD000747	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD000747">https://www.ebi.ac.uk/pride/archive/projects/PXD000747</a>	25205226
Mus	musculus	PXD004087	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD004087">https://www.ebi.ac.uk/pride/archive/projects/PXD004087</a>	27629805
Mus	musculus	PXD011334	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD011334">https://www.ebi.ac.uk/pride/archive/projects/PXD011334</a>	33216553
Mus	musculus	PXD000501	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD000501">https://www.ebi.ac.uk/pride/archive/projects/PXD000501</a>	24753479
Mus	musculus	PXD001514	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD001514">https://www.ebi.ac.uk/pride/archive/projects/PXD001514</a>	26139848
Mus	musculus	PXD001404	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD001404">https://www.ebi.ac.uk/pride/archive/projects/PXD001404</a>	25338131
Ovis	aries	PXD014050	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD014050">https://www.ebi.ac.uk/pride/archive/projects/PXD014050</a>	31882954
Ovis	aries	PXD013822	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD013822">https://www.ebi.ac.uk/pride/archive/projects/PXD013822</a>	31136077
Ovis	aries	PXD004989	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD004989">https://www.ebi.ac.uk/pride/archive/projects/PXD004989</a>	28615994
Ovis	aries	PXD004556	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD004556">https://www.ebi.ac.uk/pride/archive/projects/PXD004556</a>	27784645
Rattus	norvegicus	PXD004247	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD004247">https://www.ebi.ac.uk/pride/archive/projects/PXD004247</a>	27250205
Rattus	norvegicus	PXD001984	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD001984">https://www.ebi.ac.uk/pride/archive/projects/PXD001984</a>	26330543
Rattus	norvegicus	PXD001986	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD001986">https://www.ebi.ac.uk/pride/archive/projects/PXD001986</a>	26330543
Rattus	norvegicus	PXD004889	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD004889">https://www.ebi.ac.uk/pride/archive/projects/PXD004889</a>	27764671



			<a href="#">004889</a>	
Rattus	norvegicus	PXD016447	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD016447">https://www.ebi.ac.uk/pride/archive/projects/PXD016447</a>	33453410
Rattus	norvegicus	PXD003520	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD003520">https://www.ebi.ac.uk/pride/archive/projects/PXD003520</a>	27358910
Rattus	norvegicus	PXD003375	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD003375">https://www.ebi.ac.uk/pride/archive/projects/PXD003375</a>	27250205
Xenopus	tropicalis	PXD009577	<a href="https://www.ebi.ac.uk/pride/archive/projects/PXD009577">https://www.ebi.ac.uk/pride/archive/projects/PXD009577</a>	31490923

List of the 136 **ribosome profiling** datasets incorporated in OpenProt v2.0 along the associated species, data source and citation (PMID accession).

Species	Study ID	Data source	PMID
CE	GSE52910	<a href="https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE52910">https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE52910</a>	24440504
CE	GSE62859	<a href="https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE62859">https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE62859</a>	25378320
CE	SRP014427	<a href="https://www.ncbi.nlm.nih.gov/sra/?term=SRP014427">https://www.ncbi.nlm.nih.gov/sra/?term=SRP014427</a>	22855835
DM	GSE49197	<a href="https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE49197">https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE49197</a>	24302569
DM	GSE52799	<a href="https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE52799">https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE52799</a>	24882012
DM	GSE60384	<a href="https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE60384">https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE60384</a>	25144939
DM	GSE106697	<a href="https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE106697">https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE106697</a>	29548011
DR	GSE34743	<a href="https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE34743">https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE34743</a>	22422859
DR	GSE46512	<a href="https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE46512">https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE46512</a>	23698349
DR	GSE47558	<a href="https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE47558">https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE47558</a>	24056933
DR	GSE52809	<a href="https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE52809">https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE52809</a>	24476825
DR	GSE53693	<a href="https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE53693">https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE53693</a>	24705786
HS	GSE102113	<a href="https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE102113">https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE102113</a>	30449621
HS	GSE103719	<a href="https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE103719">https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE103719</a>	30257221
HS	GSE105082	<a href="https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE105082">https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE105082</a>	30591072
HS	GSE105172	<a href="https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE105172">https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE105172</a>	31160600
HS	GSE110323	<a href="https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE110323">https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE110323</a>	30867593
HS	GSE111866	<a href="https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE111866">https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE111866</a>	30102689
HS	GSE112276	<a href="https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE112276">https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE112276</a>	31031084
HS	GSE112353	<a href="https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE112353">https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE112353</a>	30355487
HS	GSE115146	<a href="https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE115146">https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE115146</a>	30297778
HS	GSE118050	<a href="https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE118050">https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE118050</a>	30260431
HS	GSE122461	<a href="https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE122461">https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE122461</a>	30640896
HS	GSE123564	<a href="https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE123564">https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE123564</a>	30707697
HS	GSE125218	<a href="https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE125218">https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE125218</a>	31819274
HS	GSE129869	<a href="https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE129869">https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE129869</a>	31167946
HS	GSE130781	<a href="https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE130781">https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE130781</a>	31944153
HS	GSE131112	<a href="https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE131112">https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE131112</a>	31284728
HS	GSE131809	<a href="https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE131809">https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE131809</a>	31959994
HS	GSE132725	<a href="https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE132725">https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE132725</a>	31340047
HS	GSE133111	<a href="https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE133111">https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE133111</a>	
HS	GSE134752	<a href="https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE134752">https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE134752</a>	32348767
HS	GSE37744	<a href="https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE37744">https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE37744</a>	22836135
HS	GSE39561	<a href="https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE39561">https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE39561</a>	22879431
HS	GSE41605	<a href="https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE41605">https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE41605</a>	23180859
HS	GSE45833	<a href="https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE45833">https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE45833</a>	23594524
HS	GSE48785	<a href="https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE48785">https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE48785</a>	24171104
HS	GSE48933	<a href="https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE48933">https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE48933</a>	24301020
HS	GSE49339	<a href="https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE49339">https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE49339</a>	23453015
HS	GSE51424	<a href="https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE51424">https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE51424</a>	25122893
HS	GSE51584	<a href="https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE51584">https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE51584</a>	25070500
HS	GSE52976	<a href="https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE52976">https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE52976</a>	25366541
HS	GSE55195	<a href="https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE55195">https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE55195</a>	25621764
HS	GSE56887	<a href="https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE56887">https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE56887</a>	25079319
HS	GSE56924	<a href="https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE56924">https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE56924</a>	26338483
HS	GSE58207	<a href="https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE58207">https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE58207</a>	25510491
HS	GSE59821	<a href="https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE59821">https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE59821</a>	26878238
HS	GSE60040	<a href="https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE60040">https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE60040</a>	25989971
HS	GSE60095	<a href="https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE60095">https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE60095</a>	25159147

HS	GSE61375	<a href="https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE61375">https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE61375</a>	25273840
HS	GSE62247	<a href="https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE62247">https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE62247</a>	26399832
HS	GSE63570	<a href="https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE63570">https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE63570</a>	25896322
HS	GSE64962	<a href="https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE64962">https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE64962</a>	26729373
HS	GSE65778	<a href="https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE65778">https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE65778</a>	25719440
HS	GSE65885	<a href="https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE65885">https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE65885</a>	26687005
HS	GSE65912	<a href="https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE65912">https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE65912</a>	26297486
HS	GSE66927	<a href="https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE66927">https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE66927</a>	26538417
HS	GSE67902	<a href="https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE67902">https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE67902</a>	26305499
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HS	GSE69906	<a href="https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE69906">https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE69906</a>	26599541
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HS	SRA061778	<a href="https://www.ncbi.nlm.nih.gov/sra/?term=SRA061778">https://www.ncbi.nlm.nih.gov/sra/?term=SRA061778</a>	23290916
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SC	GSE34082	<a href="https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE34082">https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE34082</a>	22194413
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