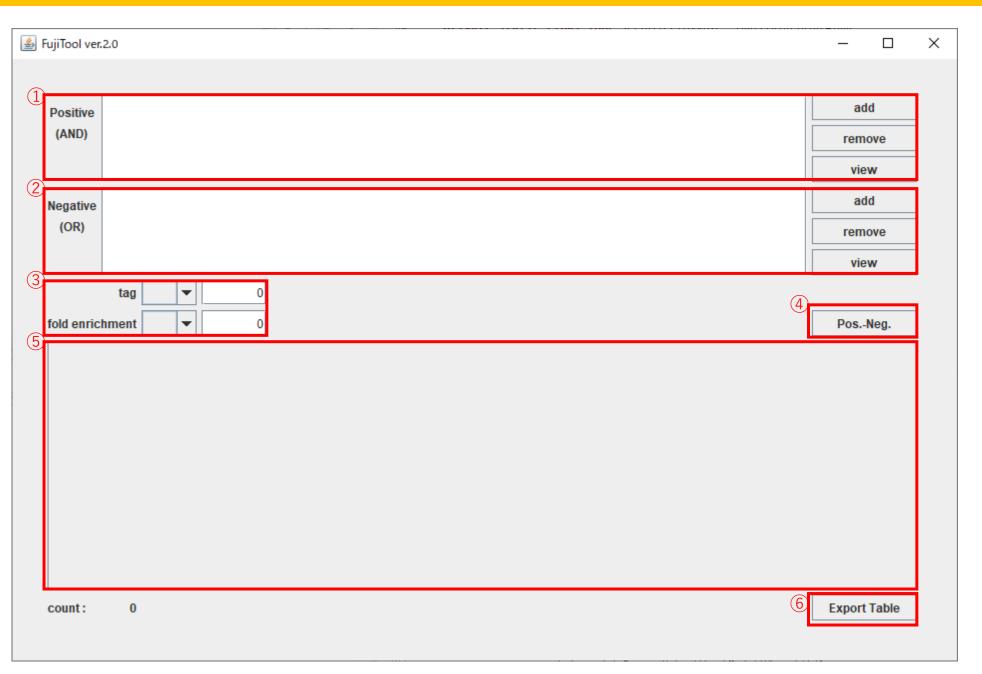
enChIP-Seq Analyzer User Manual ver. 3.0

Department of Biochemistry and Genome Biology Hirosaki University Graduate School of Medicine

Overview



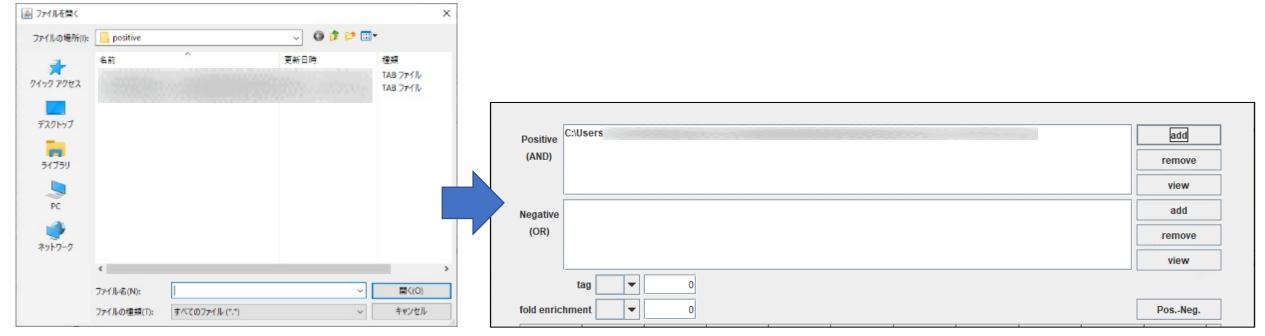
- Add "positive" samples to detect physical interactions between genomic regions (e.g., if you want to detect B cell-specific interactions, add B cell data here). The output will show a common set / intersection (overlapping) if replicates or samples with different guide RNAs for a target locus are added (see p. 6).
- Add "negative" samples to subtract non-specific interactions (e.g., if you want to detect B cellspecific interactions, add negative control samples such as those of macrophages here). The output will show a sum set / union if replicates or samples with different guide RNAs for a target locus are added (see p. 6).
- 3 Data can be filtered using tag numbers or fold enrichment.
- Signals of negative files ② can be subtracted from those of positive files ①.
- Click the "view" button to see the result table of ①, ②, or the "Pos.-Neg." button of ④. Bottom left displays the number of rows in the table.
- 6 Export the table in 5 as a CSV file.

1

Adding files for analysis

Click the "add" button to add files in the appropriate panel ("Positive" or "Negative" panel). Multiple files can be added simultaneously.





Property of a file to be analyzed

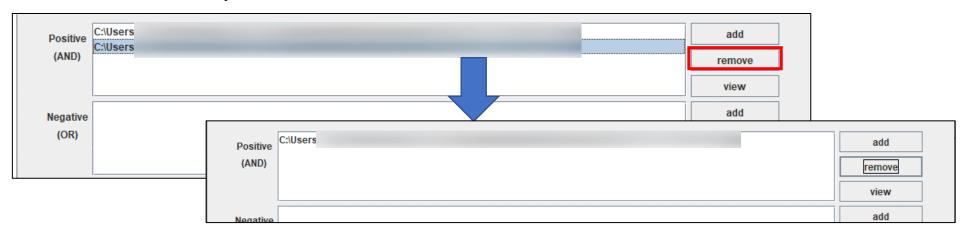
```
This file is generated by MACS version 1.4.2 20120305 -- +
  ARGUMENTS LIST: -- J
 name = MACS14_HS5_6_NaB_IP → ↓
format = BED → ↓
  ChIP-sea file
  control file =
  effective genome size = 2.70e+09
  band width = 300 → ↓
# model fold = 10,30° ∘ ↓
  pvalue cutoff = 1.00e-05
  Large dataset will be scaled towards smaller dataset.
# Range for calculating regional lambda is: 1000 bps and 10000 bps - 💵
# tag size is determined as 35 bps - 🕠
  total tags in treatment: 25696905
# tags after filtering in treatment: 23889895 🕟 🎍
# maximum duplicate tags at the same position in treatment = 1 🕟 🦠 🎍
# Redundant rate in treatment: 0.07 💀 🎍
# total tags in control: 33148962 - 🗸
  tags after filtering in control: 31888685 - +
  maximum duplicate tags at the same position in control = 1 - - +
# Redundant rate in control: 0.04 → ↓
# d = 35 ∘ ∘ ↓
chrestarteendelengthe summite tagse -10*log10(pvalue)efold_enrichmenteFDR(%)
      2053504-2053594-91- 24- 8-67.20-22.60-1.79
       2298994-2299079-86- 52- 7-50.95-10.17-3.67
       2399589 2399712 124 84 9 65.88 12.92 1.81 8165:NM_014638:PLCH2| 4 5646669 5646769 101 48 9 72.06 18.45 1.70 4 4
       5731697 • 5731849 • 153 • 79 • 16 • 54.61 • 6.02 • 3.14 • 7347532 • 7347648 • 117 • 64 • 10 • 78.46 • 19.37 • 1.66 •
      7347671 • 7347770 • 100 • 67 • 8 • 63.83 • 19.37 • 1.88 • ↓
7626357 • 7626443 • 87 • 22 • 7 • 58.10 • 19.37 • 2.91 • ↓
7812202 • 7812293 • 92 • 30 • 10 • 66.14 • 13.35 • 1.84 • • ↓
9292338 • 9292423 • 86 • 31 • 7 • 56.42 • 15.13 • 2.91 • 2525 : NM_004285 : H6PD | • ↓
10286082 • 10286164 • 83 • 60 • 10 • 75.07 • 14.83 • 1.72 • • ↓
11072883 • 11072966 • 84 • 32 • 7 • 53.84 • 16.34 • 3.48 • -204 : NM_007375 : TARDBP | • ↓
                    11611206 482 216 78 580 85 29 87 0 00 11696148 115 57 8 57 17 18 45 3 03 4
       11610725
                   - 11696148-
       11696034
      - 11919451- 11919604- 154-64- 14- 90.93-14.86-1.05- - 613:NM_002521:NPPB|↓
```

Rows starting with "#" are not read.

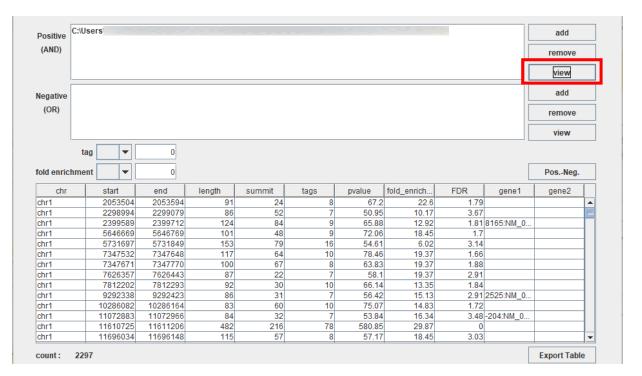
Comma Separated Values (CSVs) are read as data.

Removing or viewing a file

To remove an unnecessary file, click the file row and then click the "remove" button.

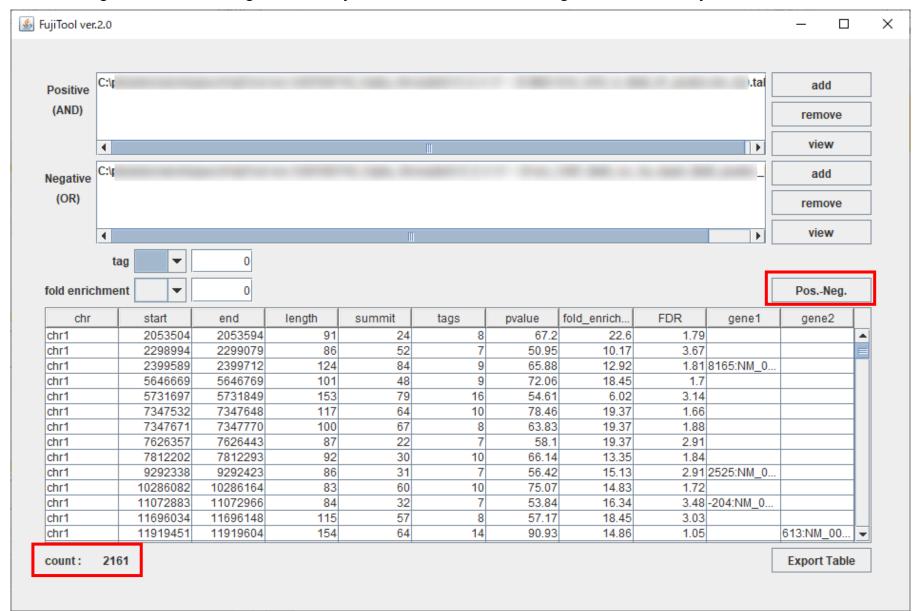


To view a file's contents, select the file row and then click the "view" button.



Analysis

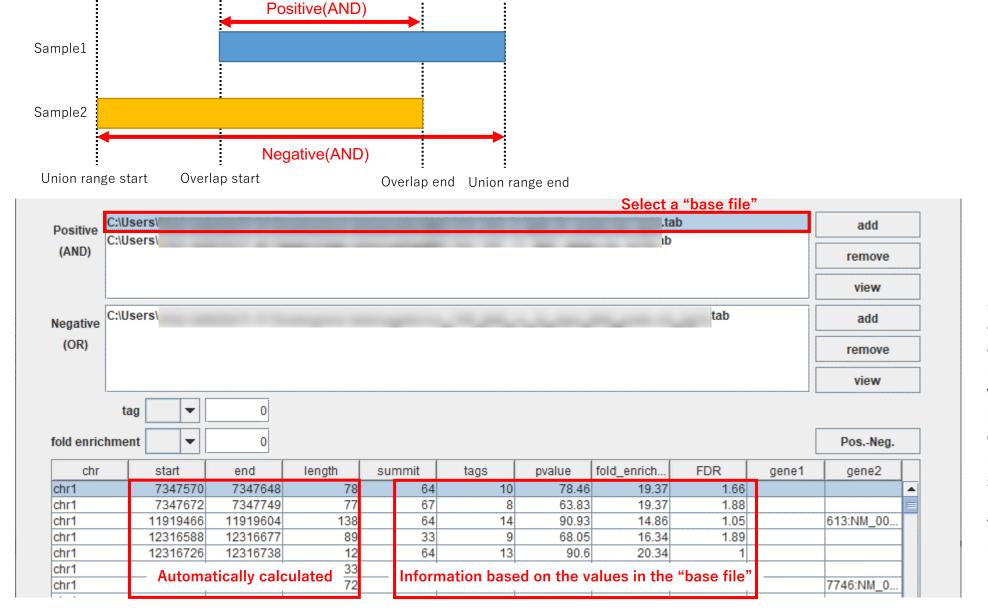
After loading Positive and Negative files, you can click the "Pos.-Neg." button to analyze the data.



The counter at the left-bottom corner shows the peak count.

Analysis of two or more files

Files in the "Positive" field are processed to generate overlapping regions, whereas files in the "Negative" field are processed to generate union ranges.

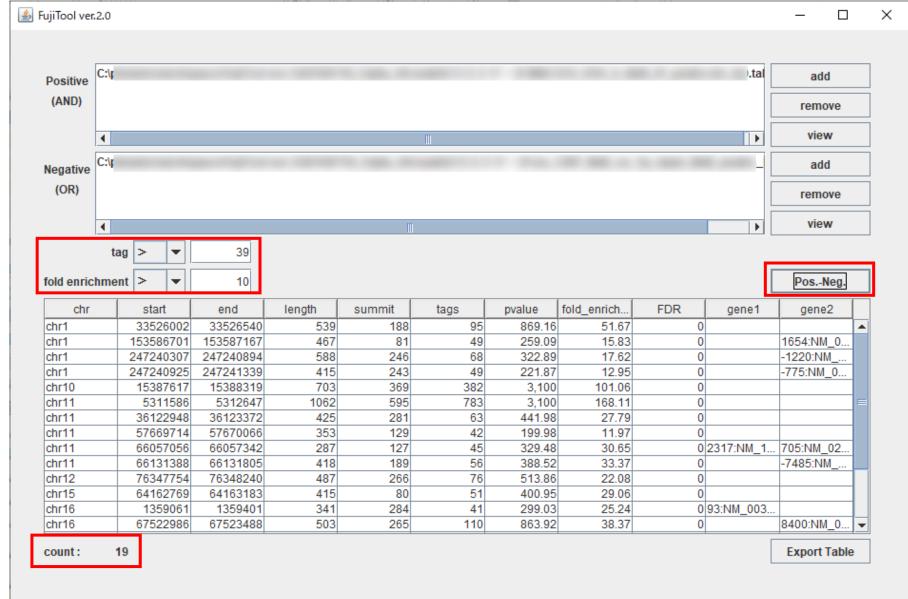


Start and end positions ("start" and "end"), and "length" are automatically calculated and reflected in the result table, whereas "summit", "tags" (number of tags), "p-value", "fold enrichment" and FDR are reflected from the values of the selected "base file".

The "base file" can be selected in the "Positive" field.

Filtering with tag and fold enrichment

Data can be filtered by tag and fold enrichment. Select the tag and filter value "=", "<" or ">". Click the "Pos.-Neg." button to update the table by the filtering conditions.



Exporting a result table

Click "view" or "Pos.-Neg." button to generate data. Then click the "Export Table" button to download as a CSV file.

-b-	-11		1		4		fold one of	FDD										
chr	start	end	length	summit	tags	pvalue	fold_enrich	FDR	gene1	gene2		-						
chr1	33526002	33526540	539	188	95	869.16		0			•							
chr1	153586701	153587167	467	81	49	259.09		0		1654:NM_								
chr1	247240307	247240894	588	246	68	322.89		0		-1220:NM								
chr1	247240925	247241339	415	243	49	221.87	12.95	0		-775:NM_	0							
chr10	15387617	15388319	703	369	382	3,100		0										
chr11	5311586	5312647	1062	595	783	3,100	168.11	0										
chr11	36122948	36123372	425	281	63	441.98	27.79	0										
chr11	57669714	57670066	353	129	42	199.98	11.97	0										
chr11	66057056	66057342	287	127	45	329.48	30.65	0	2317:NM_1	. 705:NM_0	2							
chr11	66131388	66131805	418	189	56	388.52	33.37	0		-7485:NM								
chr12	76347754	76348240	487	266	76	513.86	22.08	0										
chr15	64162769	64163183	415	80	51	400.95		0										
chr16	1359061	1359401	341	284	41	299.03		0	93:NM_003									
chr16	67522986	67523488	503	265	110	863.92		0		8400:NM	0	-						
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t4.csv - Xモ帳 (E) 編集(D) 鲁式(D) 1359061 131 116781574 108639933 57669714 118784853 66057056 81093373 153886701 247240925 64162769 66131388 36122948 247240307 132001863	O) 表示(Y) ヘルプ(出) d length sum 59401 341 284 116781978 108640362 57670066 118785151 66057342 81093786 153587167 247241339 64163183 66131805 36123372 247240894	mit tags py 41 29 405 13 430 28 353 12 299 16 287 12 414 18 467 8	value fold_er 19.03 25.24 18 41 29 42 33 44 27 45 90 46	171.13 14.3 199.98 11.97 318.58 31.95 266.82 19.07 259.09 15.83 221.87 12.95 400.95 29.06 388.52 33.77 441.98 27.79 422.89 17.62	0.0 0.0 0.0 3285 0.0 2317 0.0 0.0 0.0 0.0 0.0 0.0	:NM_000414,NM :NM_153266:TN 1654:NM_(-775:NM_(-7485:NM	M_001199291,NM_(MEM151A 080388:S100A16 001204220,NM_033	001199292:HSD1 705:NM_020470 -1640:NM_02067 213:ZNF670	2:S100A14 The	e file can be read th Excel.	A chr chr18 chr11 chr11 chr11 chr11 chr11 chr1	B stert end 1359061 13 1.17E+08 1.1 1.09E+08 1.0 57669714 576 1.19E+08 1.1 66057057 660 8109373 660 2.47E+08 2.	E-7 L4777	D E summit 341 22 405 11 430 22 353 11 299 14 414 11 445 24 415 2 2 588 22 588 241 5 588 241 5 2 588 2	F bags	G pvalue 1 299.03 1 208.29 1 171.13 2 199.98 4 318.56 5 329.48 6 266.82 9 259.09 9 221.87 1 400.95 6 388.52 3 441.98 8 322.89	H Told_entic FDR 25.24 13.35 14.3 11.97 31.93 30.66 19.07 15.83 12.95 29.06 33.37 27.79 17.62	genel 0 93:NM_C0345,NM 0 982:NM_C0101091:0 0 0 3285:NM_C00414,N 0 2317:NM 153266:1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
tat.csv - 火モ帳 (E) 編集(E) 書式(start en 1359061 174 108639933 57669714 118784853 66057056 81093373 153586701 247240925 64162769 66131388 36122948 247240307 132001863 76347754	O) 表示(Y) ヘルプ(出) d length sum 59401 341 284 116781978 108640362 57670066 118785151 66057342 81093786 153587167 247241339 64163183 66131805 36123372 247240894	mit tags py 41 29 405 13 430 28 353 12 299 16 287 12 414 18 467 8	value fold_er 19.03 25.24 18 41 29 42 33 44 27 45 90 46	171.13 14.3 199.98 11.97 318.58 31.93 329.48 30.65 266.82 19.07 259.09 15.83 221.87 12.96 400.95 29.06 388.52 33.37 441.98 27.79 322.89 17.62 488.49 27.24 488.49 27.24	0.0 0.0 0.0 3285 0.0 2317 0.0 0.0 0.0 0.0 0.0 0.0 0.0	:NM_000414,NM :NM_153266:TN 1654:NM_(-775:NM_(-7485:NM	M_001199291,NM_(MEM151A 080388:S100A16 001204220,NM_033 _001532:SLC29A2	001199292:HSD1 705:NM_020470 -1640:NM_02067 213:ZNF670	2:S100A14 The	e file can pe read th Excel.	A chr chr18 chr11 chr11 chr11 chr11 chr1 chr7 chr7	B stert end 1359061 13 1.17E+08 1.1 1.09E+08 1.0 57669714 576 1.19E+08 1.1 66057056 660 81093373 661 3.54E+08 1.5 2.47E+06 2.4 66131388 661 36122948 361 2.47E+08 2.4 1.32E+08 1.3	E-7 14777	D E th summit 341 22 405 1. 430 22 353 1. 299 1. 444 1. 445 2. 445 2. 445 3. 445 2. 588 2. 502 2.2	F bags	G pvalue 1 299.03 1 208.29 1 171.13 2 199.98 4 318.56 5 329.48 6 266.82 9 259.09 9 259.00 1 400.95 6 388.52 3 441.98 8 322.89 1 488.49	H Told_enric FDR 25.24 13.35 14.3 11.97 31.93 30.86 19.07 15.83 12.95 29.06 33.37 27.79 17.52 27.24	gene1 0 93:NIM_C00345,NIM 0 982:NIM_C01010910 0 3285:NIM_C00414,NIM 0 2317:NIM 153266:1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
tak.csv - 火王帳 (E) 編集(D) 魯式(start en 1359061 13' 11678157' 108639933 57669714 118784853 66057056 81093373 153586701 247240925 64162769 66131388 36122948 247240307 132001863 76347754 33526002	©) 表示(Y) ヘルプ(H) d length sum 59401 341 284 116781978 108640362 57670066 118785151 66057342 81093786 153587167 247241339 64163183 66131805 36123372 247240894 132002364 76348240 33526540	mit tags py 41 29 405 13 430 28 353 12 299 16 287 12 414 18 467 8	value fold_er 19.03 25.24 18 41 29 42 33 44 27 45 90 46	171.13 14.3 199.98 11.97 318.58 31.93 329.48 30.65 266.82 19.07 259.09 15.83 221.87 12.95 400.95 29.06 388.52 33.37 441.98 27.79 322.89 17.62 488.49 27.24 513.86 22.08 869.16 51.67	0.0 0.0 0.0 3285 0.0 2317 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	:NM_000414,NM :NM_153266:TN 1654:NM_(-775:NM_(-7485:NM_ -1220:NM_	M_001199291,NM_(MEM151A 080388:S100A16 - 001204220,NM_033 _001532:SLC29A2 _001204220,NM_03	001199292:HSD1 705:NM_020470 -1640:NM_02067 9213:ZNF670 	2:S100A14 The b wi	e file can be read th Excel.	A chr 6 chr 8 chr 8 chr 9 chr 11 chr 11 chr 11 chr 11 chr 15 chr 7 6 chr 17	8 stert end 1359061 13 1.17E+08 1.1 1.09E+08 1.0 57669714 576 1.19E+08 1.1 66057056 660 81093373 661 3154E+08 1.5 2.47E+08 2.4 66131388 661 36122948 361 2.47E+08 2.4 7E+08 2.4 7E+08 1.3 2E+08 1.3	E-7 L4779	D E th summit 341 2: 405 1: 430 2: 353 1: 299 1: 414 1: 467 3: 415 2: 416 4: 588 2: 502 2: 487 2:	F Lags 14 4 4 4 4 4 4 4 4	G pvalue 1 299.03 1 208.29 1 171.13 2 199.98 4 318.58 5 329.88 6 266.82 9 259.08 9 21.87 1 409.56 6 388.52 3 441.98 8 322.89 1 488.49 6 513.86	H Told_entic FDR 25.24 13.35 14.3 11.97 31.93 30.86 19.07 15.83 12.95 29.06 33.37 27.79 17.52 27.24 27.08	gene1 0 93:NM_003345,NM 0 982:NM_001010914 0 0 3285:NM_000414,N 0 2317:NM 153266:1 0 0 0 0 0 0
t4.csv - Xモ帳 (E) 編集(E) 鲁式(E) まれます en 1359061 13: 116781574 108639933 57669714 118784853 66057056 81093373 153886701 247240925 64162769 66131388 36122948 247240307 132001863 76347754 33526002 67522986 15387617	O) 表示(Y) ヘルプ(出) d length sum 59401 341 284 116781978 108640362 57670066 118785151 66057342 81093786 153587167 247241339 64163183 66131805 36123372 247240894 132002364 76348240 33526540 67523488 15388319	mit tags py 41 29 405 13 430 28 353 12 299 16 287 12 414 18 415 24 415 29 415 80 418 425 29 418 425 29 588 22 588 22 588 26 589 18	value fold_er 199.03 25.24 38 41 29 42 33 44 27 45 30 46 30 46 31 63 39 56 31 63 46 68 72 71 38 95 38 95 38 95	171.13 14.3 199.98 11.97 318.58 31.93 329.48 30.65 266.82 19.07 259.09 15.83 221.87 12.95 400.95 29.06 388.52 33.37 441.98 27.79 322.89 17.62 488.49 27.24 513.86 22.08 869.16 22.08	0.0 0.0 0.0 3285 0.0 2317 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	:NM_000414,NM :NM_153266:TN 1654:NM_(-775:NM_(-7485:NM_ -1220:NM_	M_001199291,NM_(MEM151A 080388:S100A16 001204220,NM_033 _001532:SLC29A2	001199292:HSD1 705:NM_020470 -1640:NM_02067 9213:ZNF670 	2:S100A14 The b wi	e file can be read th Excel.	A chr chr 6 chr 7 chr 1	8 stert end 1359061 13 1.17E+08 1.1 1.09E+08 1.0 57669714 576 1.19E+08 1.1 1.66057056 660 81093373 1.5 2.47E+08 2.4 66131388 661 2.47E+08 2.4 7E+08 2.4 7E+0	E-7 14777 E 1678 E 1	D E th summit 341 2: 405 1: 430 2: 353 1: 299 1: 414 1: 467 3: 415 2: 418 1: 425 2: 588 2: 502 2: 487 2:	F Large 14 4 4 4 4 4 4 4 4	G pvalue 1 299.03 1 206.29 1 171.13 2 199.98 4 318.58 5 329.88 6 266.82 9 259.08 9 221.87 1 400.95 6 388.52 3 441.98 8 322.89 1 488.49 6 513.86 5 669.16 5	H FDR 25.24 13.35 14.3 11.97 31.93 30.86 19.07 15.83 12.95 29.06 33.37 27.79 17.62 27.24 77.08 51.67	gene1 0 93:NM_003345,NM 0 982:NM_001010918 0 0 3285:NM_000414,N 0 2317:NM_153266:T 0 0 0 0 0 0 0 0
tak.csv - Xモ帳 (E) 編集(D) 鲁式(start en 1359061 13' 116781574 108639933 57669714 118784853 66057056 81093373 153586701 247240925 64162769 66131388 36122948 247240307 132001863 76347754 33526002 67522986	O) 表示(Y) ヘルプ(出) d length sum 59401 341 284 116781978 108640362 57670066 118785151 66057342 81093786 153587167 247241339 64163183 66131805 36123372 247240894 132002364 76348240 33526540 67523488 15388319	mit tags py 41 29 405 13 430 28 353 12 299 16 287 12 414 19 467 8 415 26 415 28 415 28 588 22 487 26 539 18 503 26 703 36	value fold_er 19.03 25.24 18 41 29 42 33 44 27 45 90 46	171.13 14.3 199.98 11.97 318.58 31.93 329.48 30.65 266.82 19.07 259.09 15.83 221.87 12.95 400.95 29.06 388.52 33.37 441.98 27.79 322.89 17.62 488.49 27.24 513.86 22.08 869.16 51.67	0.0 0.0 0.0 3285 0.0 2317 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	:NM_000414,NM :NM_153266:TN 1654:NM_(-775:NM_(-7485:NM_ -1220:NM_	M_001199291,NM_(MEM151A 080388:S100A16 - 001204220,NM_033 _001532:SLC29A2 _001204220,NM_03	001199292:HSD1 705:NM_020470 -1640:NM_02067 9213:ZNF670 	2:S100A14 The b wi	e file can be read th Excel.	A chr 6 chr 8 chr 8 chr 9 chr 11 chr 11 chr 11 chr 11 chr 15 chr 7 6 chr 17	8 stert end 1359061 13 1.17E+08 1.1 1.09E+08 1.0 57669714 576 1.19E+08 1.1 66057056 660 81093373 661 3154E+08 1.5 2.47E+08 2.4 66131388 661 36122948 361 2.47E+08 2.4 7E+08 2.4 7E+08 1.3 2E+08 1.3	E-2 L4779	D E th summit 341 2: 405 1: 430 2: 353 1: 299 1: 414 1: 467 3: 415 2: 416 4: 588 2: 502 2: 487 2:	F bags	G pvalue 1 299.03 1 206.29 1 171.13 2 199.98 4 319.58 5 329.48 6 266.02 9 259.09 9 221.67 1 400.95 6 3441.98 8 322.88 1 488.49 6 513.86 5 669.16 0 863.92	H fold_emic FDR 25.24 13.35 14.3 11.97 31.93 30.66 19.07 15.83 12.95 29.06 33.37 27.79 17.52 27.24 77.08 51.67 38.37	gene1 0 93:NIM_C00345,NIM 0 982:NIM_C0101091: 0 0 3285:NIM_C00414,NIM 0 2317:NIM 153266:1 0 0 0 0 0 0 0