

Supplementary Table 1

Protein sequences for Fig. 1 (phylogeny of NACHT protein family).

Abbreviation	Source and Identifier
NALP1_HUMAN	NCBI: GI: 14719829
NALP2_HUMAN	NCBI: GI: 8923473
NALP3_HUMAN	NCBI: GI: 34878693
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NALP6_HUMAN	NCBI: GI: 21264320
NALP7_HUMAN	NCBI: GI: 45593128
NALP8_HUMAN	NCBI: GI: 33667040
NALP9_HUMAN	NCBI: GI: 33519450
NALP10_HUMAN	NCBI: GI: 28827807
NALP11_HUMAN	NCBI: GI: 21450725
NALP12_HUMAN	NCBI: GI: 21955154
NALP13_HUMAN	NCBI: GI: 28827789
NALP14_HUMAN	NCBI: GI: 28827813
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NOD2_HUMAN	NCBI: GI: 11545912
IPAF_HUMAN	NCBI: GI: 40788015
CIITA_HUMAN	NCBI: GI: 4557749
NAIP_HUMAN	NCBI: GI: 4758752
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394_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_00738
395_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_00816
396_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_00852
397_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_00863
398_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_00896
399_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_01016
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402_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_01444
403_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_01548
404_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_01591
405_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_01608
406_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_01781
407_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_01884
408_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_02086
409_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_02272
410_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_02372
411_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_02436
412_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_02641
413_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_02758
414_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_02868
415_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_02888
416_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_02962
417_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_03186
418_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_03200
419_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_03247

420_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_03303
421_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_03366
422_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_03539
423_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_03553
424_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_03640
425_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_03715
426_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_03762
427_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_03797
428_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_03934
429_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_04012
430_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_04043
431_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_04053
432_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_04165
433_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_04343
434_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_04872
435_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_05301
436_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_05383
437_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_05410
438_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_05462
439_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_05581
440_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_05609
441_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_05732
442_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_05993
443_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_06016
444_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_06203
445_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_06229
446_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_06456
447_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_06610
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452_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_08283
453_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_08382
454_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_08431
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456_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_08498
457_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_08547
458_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_08597
459_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_08707
460_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_08833
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465_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_09659
466_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_10039
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477_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_11827
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482_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_13504
483_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_13521
484_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_13665
485_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_13952
486_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_14112
487_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_14122
488_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_14128
489_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_14183
490_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_14495
491_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_14503
492_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_14530
493_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_14761
494_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_15033
495_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_15052
496_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_15105
497_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_15205
498_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_15206
499_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_15298
500_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_15340
501_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_15481
502_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_15972
503_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_16060
504_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_16257

505_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_16759
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507_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_16794
508_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_16810
509_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_16921
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512_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_17054
513_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_17196
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523_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_19699
524_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_19700
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527_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_20436
528_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_20561
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530_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_20661
531_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_20916
532_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_21243
533_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_21447
534_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_21478
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536_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_21930
537_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_22001
538_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_22130
539_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_22294
540_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_22394
541_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_22412
542_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_22442
543_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_22564
544_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_22780
545_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_23120
546_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_23183

547_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_23474
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550_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_23642
551_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_24020
552_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_24649
553_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_24709
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556_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_25138
557_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_25166
558_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_25167
559_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_25179
560_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_25204
561_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_25600
562_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_25680
563_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_25914
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565_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_26020
566_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_26036
567_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_26189
568_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_26304
569_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_26400
570_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_26622
571_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_27035
572_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_27207
573_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_27300
574_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_27511
575_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_27513
576_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_27610
577_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_27762
578_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_27808
579_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_27858
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581_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_28294
582_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_28387
583_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_28433
584_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_28483
585_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_28485
586_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_28595
587_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_28630
588_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_28681

589_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_28805
590_STRPU	HGSC Strongylocentrotus purpuratus GLEAN3: GLEAN3_28820
591_XENTR	Ensembl release 38 'pep': ENSXETP00000009512
592_XENTR	Ensembl release 38 'pep': ENSXETP00000019175
593_XENTR	Ensembl release 38 'pep': ENSXETP00000019188
594_XENTR	Ensembl release 38 'pep': ENSXETP00000019215
595_XENTR	Ensembl release 38 'pep': ENSXETP00000019240
596_XENTR	Ensembl release 38 'pep': ENSXETP00000030524
597_XENTR	Ensembl release 38 'pep': ENSXETP00000040025
598_XENTR	Ensembl release 38 'pep': ENSXETP00000046634
599_XENTR	Ensembl release 38 'pep': ENSXETP00000047642
600_XENTR	Ensembl release 38 'pep': ENSXETP00000054623
601_XENTR	Ensembl release 38 'pep': GENSCAN00000070753
602_BRARE	Ensembl release 38 'pep': ENSDARP00000013454
603_BRARE	Ensembl release 38 'pep': ENSDARP00000015139
604_BRARE	Ensembl release 38 'pep': ENSDARP00000035227
605_BRARE	Ensembl release 38 'pep': ENSDARP00000052744
606_BRARE	Ensembl release 38 'pep': ENSDARP00000056172
607_BRARE	Ensembl release 38 'pep': ENSDARP00000056257
608_BRARE	Ensembl release 38 'pep': ENSDARP00000056299
609_BRARE	Ensembl release 38 'pep': ENSDARP00000056352
610_BRARE	Ensembl release 38 'pep': ENSDARP00000061179

All NACHT sequences shown above match the NACHT HMM with an E-value less than 0.0001 and a match length longer than 50aa.