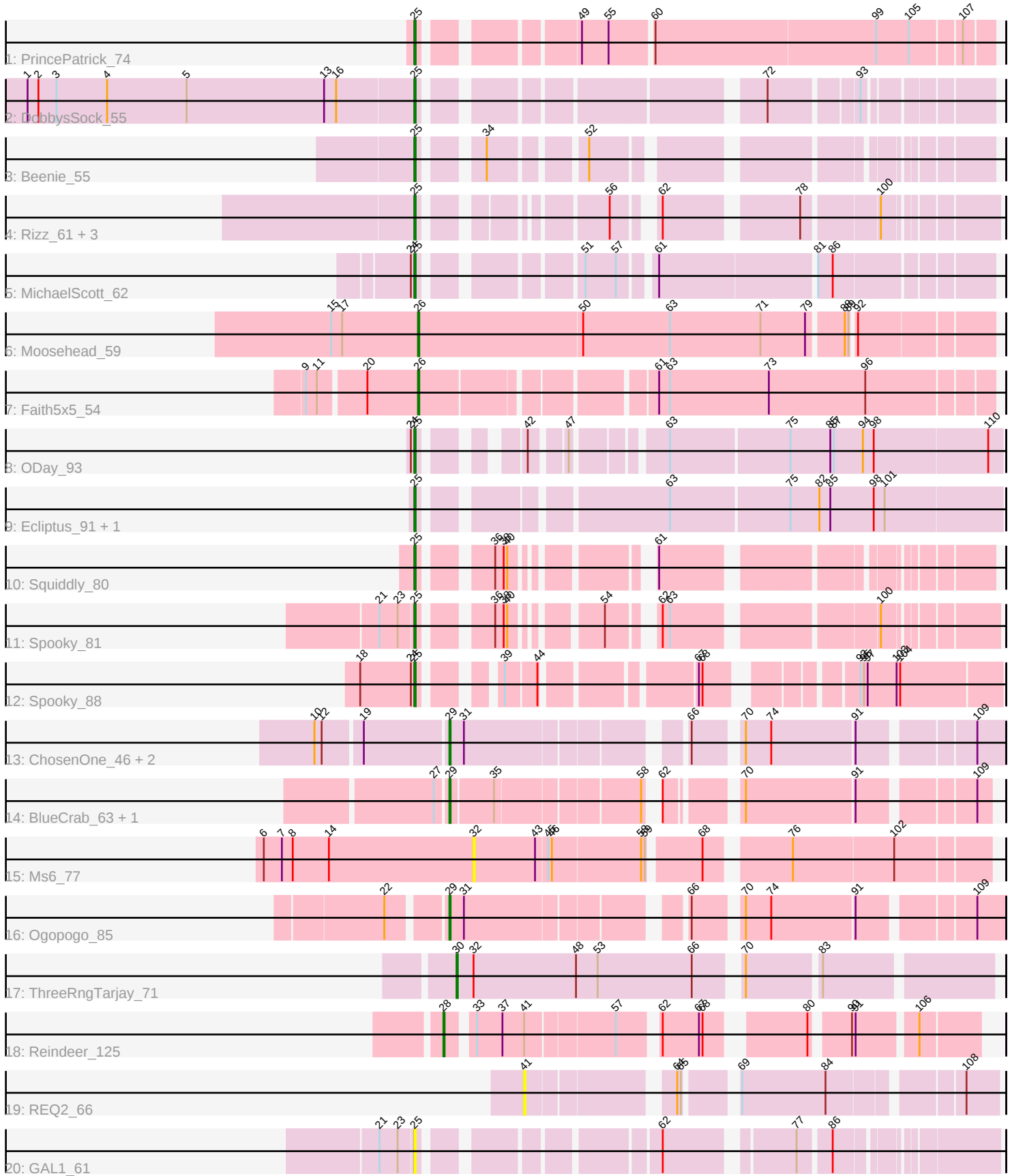


Pham 331150



Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

Pham 331150 Report

This analysis was run 09/05/26 on database version 662.

Pham number 331150 has 27 members, 4 are drafts.

Phages represented in each track:

- Track 1 : PrincePatrick_74
- Track 2 : DobbysSock_55
- Track 3 : Beenie_55
- Track 4 : Rizz_61, Samman98_61, Invectra_63, Clark_60
- Track 5 : MichaelScott_62
- Track 6 : Moosehead_59
- Track 7 : Faith5x5_54
- Track 8 : ODay_93
- Track 9 : Ecliptus_91, Apricot_84
- Track 10 : Squiddly_80
- Track 11 : Spooky_81
- Track 12 : Spooky_88
- Track 13 : ChosenOne_46, Lilpickle_45, Elite2014_45
- Track 14 : BlueCrab_63, ByChance_55
- Track 15 : Ms6_77
- Track 16 : Ogopogo_85
- Track 17 : ThreeRngTarjay_71
- Track 18 : Reindeer_125
- Track 19 : REQ2_66
- Track 20 : GAL1_61

Summary of Final Annotations (See graph section above for start numbers):

The start number called the most often in the published annotations is 25, it was called in 13 of the 23 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Apricot_84, Beenie_55, Clark_60, DobbysSock_55, Ecliptus_91, GAL1_61, Invectra_63, MichaelScott_62, ODay_93, PrincePatrick_74, Rizz_61, Samman98_61, Spooky_81, Spooky_88, Squiddly_80,

Genes that have the "Most Annotated" start but do not call it:

-

Genes that do not have the "Most Annotated" start:

- BlueCrab_63, ByChance_55, ChosenOne_46, Elite2014_45, Faith5x5_54, Lilpickle_45, Moosehead_59, Ms6_77, Ogopogo_85, REQ2_66, Reindeer_125, ThreeRngTarjay_71,

Summary by start number:

Start 25:

- Found in 15 of 27 (55.6%) of genes in pham
- Manual Annotations of this start: 13 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Apricot_84 (DN3), Beenie_55 (CZ4), Clark_60 (CZ4), DobbysSock_55 (CZ4), Ecliptus_91 (DN), GAL1_61 (singleton), Invecra_63 (CZ4), MichaelScott_62 (CZ4), ODay_93 (DN), PrincePatrick_74 (CV), Rizz_61 (CZ4), Samman98_61 (CZ4), Spooky_81 (DN2), Spooky_88 (DN2), Squiddly_80 (DN2),

Start 26:

- Found in 2 of 27 (7.4%) of genes in pham
- Manual Annotations of this start: 2 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Faith5x5_54 (CZ6), Moosehead_59 (CZ6),

Start 28:

- Found in 1 of 27 (3.7%) of genes in pham
- Manual Annotations of this start: 1 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Reindeer_125 (M1),

Start 29:

- Found in 6 of 27 (22.2%) of genes in pham
- Manual Annotations of this start: 6 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BlueCrab_63 (F1), ByChance_55 (F1), ChosenOne_46 (E), Elite2014_45 (E), Lilpickle_45 (E), Ogopogo_85 (F1),

Start 30:

- Found in 1 of 27 (3.7%) of genes in pham
- Manual Annotations of this start: 1 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ThreeRngTarjay_71 (J),

Start 32:

- Found in 2 of 27 (7.4%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Ms6_77 (F1),

Start 41:

- Found in 2 of 27 (7.4%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present

- Phage (with cluster) where this start called: REQ2_66 (singleton),

Summary by clusters:

There are 11 clusters represented in this pham: DN, F1, singleton, E, J, CZ6, CZ4, M1, DN3, DN2, CV,

Info for manual annotations of cluster CV:

- Start number 25 was manually annotated 1 time for cluster CV.

Info for manual annotations of cluster CZ4:

- Start number 25 was manually annotated 6 times for cluster CZ4.

Info for manual annotations of cluster CZ6:

- Start number 26 was manually annotated 2 times for cluster CZ6.

Info for manual annotations of cluster DN:

- Start number 25 was manually annotated 2 times for cluster DN.

Info for manual annotations of cluster DN2:

- Start number 25 was manually annotated 3 times for cluster DN2.

Info for manual annotations of cluster DN3:

- Start number 25 was manually annotated 1 time for cluster DN3.

Info for manual annotations of cluster E:

- Start number 29 was manually annotated 3 times for cluster E.

Info for manual annotations of cluster F1:

- Start number 29 was manually annotated 3 times for cluster F1.

Info for manual annotations of cluster J:

- Start number 30 was manually annotated 1 time for cluster J.

Info for manual annotations of cluster M1:

- Start number 28 was manually annotated 1 time for cluster M1.

Gene Information:

Gene: Apricot_84 Start: 46207, Stop: 46650, Start Num: 25

Candidate Starts for Apricot_84:

(Start: 25 @46207 has 13 MA's), (63, 46381), (75, 46477), (82, 46501), (85, 46510), (98, 46546), (101, 46555),

Gene: Beenie_55 Start: 40138, Stop: 40506, Start Num: 25

Candidate Starts for Beenie_55:

(Start: 25 @40138 has 13 MA's), (34, 40177), (52, 40240),

Gene: BlueCrab_63 Start: 41722, Stop: 42096, Start Num: 29

Candidate Starts for BlueCrab_63:

(27, 41713), (Start: 29 @41722 has 6 MA's), (35, 41755), (58, 41863), (62, 41866), (70, 41914), (91, 42001), (109, 42085),

Gene: ByChance_55 Start: 36650, Stop: 37024, Start Num: 29

Candidate Starts for ByChance_55:

(27, 36641), (Start: 29 @36650 has 6 MA's), (35, 36683), (58, 36791), (62, 36794), (70, 36842), (91, 36929), (109, 37013),

Gene: ChosenOne_46 Start: 35277, Stop: 34882, Start Num: 29

Candidate Starts for ChosenOne_46:

(10, 35379), (12, 35373), (19, 35343), (Start: 29 @35277 has 6 MA's), (31, 35265), (66, 35109), (70, 35076), (74, 35055), (91, 34989), (109, 34905),

Gene: Clark_60 Start: 39935, Stop: 40306, Start Num: 25

Candidate Starts for Clark_60:

(Start: 25 @39935 has 13 MA's), (56, 40049), (62, 40073), (78, 40169), (100, 40226),

Gene: DobbysSock_55 Start: 39516, Stop: 39908, Start Num: 25

Candidate Starts for DobbysSock_55:

(1, 39198), (2, 39207), (3, 39222), (4, 39264), (5, 39330), (13, 39444), (16, 39453), (Start: 25 @39516 has 13 MA's), (72, 39750), (93, 39816),

Gene: Ecliptus_91 Start: 49913, Stop: 50356, Start Num: 25

Candidate Starts for Ecliptus_91:

(Start: 25 @49913 has 13 MA's), (63, 50087), (75, 50183), (82, 50207), (85, 50216), (98, 50252), (101, 50261),

Gene: Elite2014_45 Start: 35276, Stop: 34881, Start Num: 29

Candidate Starts for Elite2014_45:

(10, 35378), (12, 35372), (19, 35342), (Start: 29 @35276 has 6 MA's), (31, 35264), (66, 35108), (70, 35075), (74, 35054), (91, 34988), (109, 34904),

Gene: Faith5x5_54 Start: 34585, Stop: 35022, Start Num: 26

Candidate Starts for Faith5x5_54:

(9, 34498), (11, 34507), (20, 34543), (Start: 26 @34585 has 2 MA's), (61, 34756), (63, 34765), (73, 34846), (96, 34924),

Gene: GAL1_61 Start: 40090, Stop: 40473, Start Num: 25

Candidate Starts for GAL1_61:

(21, 40063), (23, 40078), (Start: 25 @40090 has 13 MA's), (62, 40246), (77, 40336), (86, 40360),

Gene: Invetra_63 Start: 41508, Stop: 41879, Start Num: 25

Candidate Starts for Invetra_63:

(Start: 25 @41508 has 13 MA's), (56, 41622), (62, 41646), (78, 41742), (100, 41799),

Gene: Lilpickle_45 Start: 35276, Stop: 34881, Start Num: 29

Candidate Starts for Lilpickle_45:

(10, 35378), (12, 35372), (19, 35342), (Start: 29 @35276 has 6 MA's), (31, 35264), (66, 35108), (70, 35075), (74, 35054), (91, 34988), (109, 34904),

Gene: MichaelScott_62 Start: 41372, Stop: 41779, Start Num: 25

Candidate Starts for MichaelScott_62:

(24, 41369), (Start: 25 @41372 has 13 MA's), (51, 41477), (57, 41501), (61, 41525), (81, 41648), (86, 41660),

Gene: Moosehead_59 Start: 34924, Stop: 35379, Start Num: 26

Candidate Starts for Moosehead_59:

(15, 34852), (17, 34861), (Start: 26 @34924 has 2 MA's), (50, 35059), (63, 35131), (71, 35206), (79, 35242), (88, 35269), (89, 35272), (92, 35275),

Gene: Ms6_77 Start: 44192, Stop: 44584, Start Num: 32

Candidate Starts for Ms6_77:

(6, 44018), (7, 44033), (8, 44042), (14, 44072), (32, 44192), (43, 44243), (45, 44252), (46, 44255), (58, 44327), (59, 44330), (68, 44369), (76, 44429), (102, 44510),

Gene: ODay_93 Start: 50443, Stop: 50856, Start Num: 25

Candidate Starts for ODay_93:

(24, 50440), (Start: 25 @50443 has 13 MA's), (42, 50500), (47, 50524), (63, 50587), (75, 50683), (85, 50716), (87, 50719), (94, 50743), (98, 50752), (110, 50845),

Gene: Ogopogo_85 Start: 48076, Stop: 48471, Start Num: 29

Candidate Starts for Ogopogo_85:

(22, 48034), (Start: 29 @48076 has 6 MA's), (31, 48088), (66, 48244), (70, 48277), (74, 48298), (91, 48364), (109, 48448),

Gene: PrincePatrick_74 Start: 44382, Stop: 44810, Start Num: 25

Candidate Starts for PrincePatrick_74:

(Start: 25 @44382 has 13 MA's), (49, 44487), (55, 44508), (60, 44541), (99, 44721), (105, 44748), (107, 44787),

Gene: REQ2_66 Start: 42263, Stop: 42595, Start Num: 41

Candidate Starts for REQ2_66:

(41, 42263), (64, 42368), (65, 42371), (69, 42404), (84, 42473), (108, 42569),

Gene: Reindeer_125 Start: 66666, Stop: 67040, Start Num: 28

Candidate Starts for Reindeer_125:

(Start: 28 @66666 has 1 MA's), (33, 66684), (37, 66705), (41, 66723), (57, 66792), (62, 66819), (67, 66849), (68, 66852), (80, 66918), (90, 66945), (91, 66948), (106, 66993),

Gene: Rizz_61 Start: 40721, Stop: 41092, Start Num: 25

Candidate Starts for Rizz_61:

(Start: 25 @40721 has 13 MA's), (56, 40835), (62, 40859), (78, 40955), (100, 41012),

Gene: Samman98_61 Start: 40038, Stop: 40409, Start Num: 25

Candidate Starts for Samman98_61:

(Start: 25 @40038 has 13 MA's), (56, 40152), (62, 40176), (78, 40272), (100, 40329),

Gene: Spooky_81 Start: 46355, Stop: 46723, Start Num: 25

Candidate Starts for Spooky_81:

(21, 46328), (23, 46343), (Start: 25 @46355 has 13 MA's), (36, 46400), (38, 46406), (40, 46409), (54, 46463), (62, 46490), (63, 46496), (100, 46643),

Gene: Spooky_88 Start: 49198, Stop: 49584, Start Num: 25

Candidate Starts for Spooky_88:

(18, 49153), (24, 49195), (Start: 25 @49198 has 13 MA's), (39, 49243), (44, 49267), (67, 49372), (68, 49375), (93, 49471), (95, 49474), (97, 49477), (103, 49501), (104, 49504),

Gene: Squiddly_80 Start: 48754, Stop: 49113, Start Num: 25

Candidate Starts for Squiddly_80:

(Start: 25 @48754 has 13 MA's), (36, 48799), (38, 48805), (40, 48808), (61, 48886),

Gene: ThreeRngTarjay_71 Start: 51145, Stop: 50735, Start Num: 30

Candidate Starts for ThreeRngTarjay_71:

(Start: 30 @51145 has 1 MA's), (32, 51133), (48, 51049), (53, 51031), (66, 50953), (70, 50923), (83, 50866),