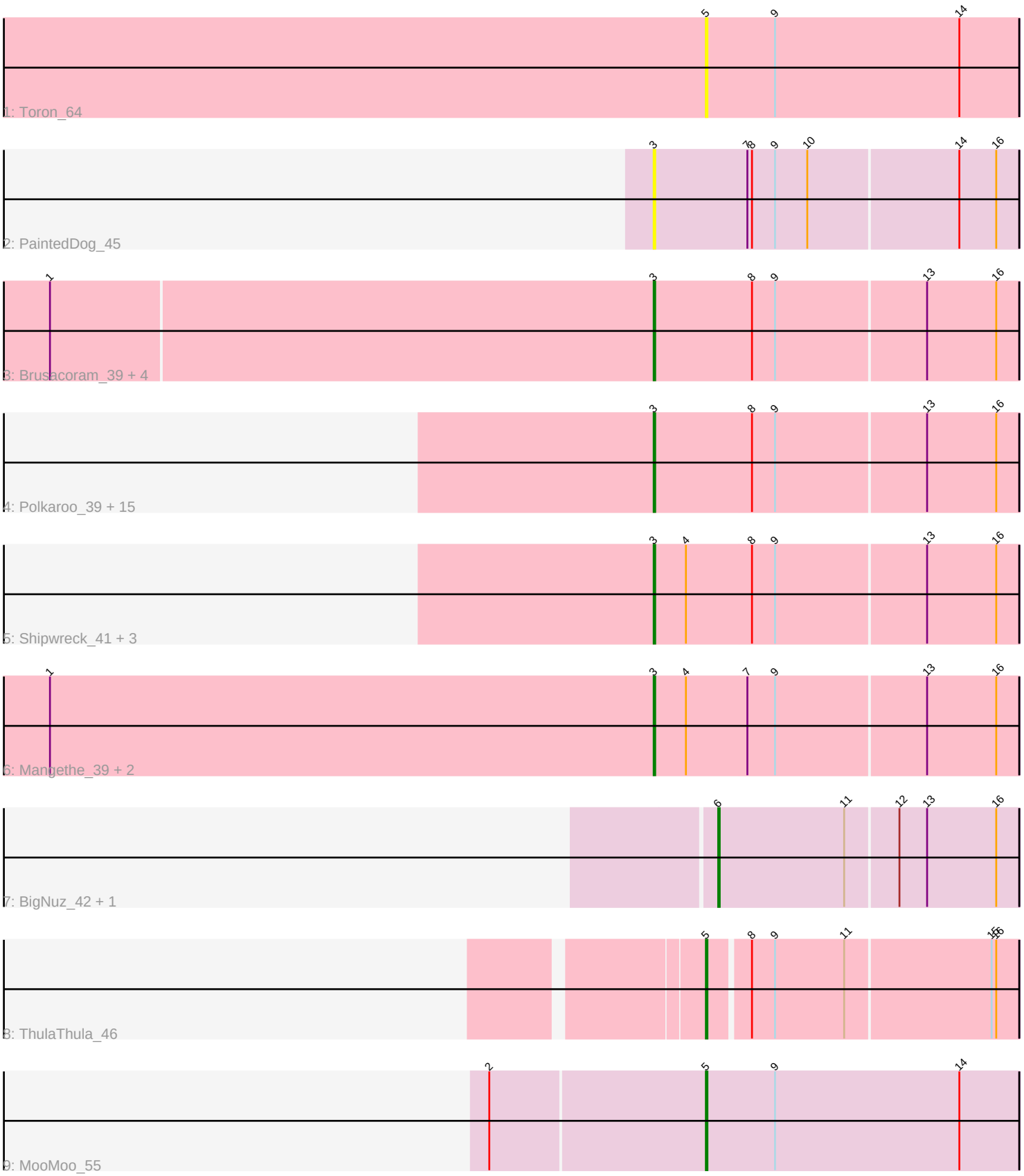
Pham 291366


5
9
14
1: Toron_64
3
7
8
9
10
14
16
2: PaintedDog_45
1
3
8
9
13
16
3: Brusacoram_39 + 4
3
8
9
13
16
4: Polkaroo_39 + 15
3
4
8
9
13
16
5: Shipwreck_41 + 3
1
3
4
7
9
13
16
6: Mangethe_39 + 2
6
11
12
13
16
7: BigNuz_42 + 1
5
8
9
11
16
16
8: ThulaThula_46
2
5
9
14
9: MooMoo_55

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 291366 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291366 has 34 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Toron_64
• Track 2 : PaintedDog_45
• Track 3 : Brusacoram_39, Xeno_41, GreaseLightnin_39, Atcoo_39, Thespis_39
• Track 4 : Polkaroo_39, Bhagsy_39, KilKor_39, Phalm_39, PeanutPie_39, Bunnies_39, Willsammy_38, Jung_38, Ksquared_39, StevieRay_39, StressBall_39, CactusJack_39, Gavriela_39, Glaske_39, Juniormint_39, Megiddo_39
• Track 5 : Shipwreck_41, Camster_39, Bogie_41, Pygmy_41
• Track 6 : Mangethe_39, Majeke_39, Phegasus_39
• Track 7 : BigNuz_42, Nazo_43
• Track 8 : ThulaThula_46
• Track 9 : MooMoo_55

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

The start number called the most often in the published annotations is 3, it was called in 26 of the 30 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Atcoo_39, Bhagsy_39, Bogie_41, Brusacoram_39, Bunnies_39, CactusJack_39, Camster_39, Gavriela_39, Glaske_39, GreaseLightnin_39, Jung_38, Juniormint_39, KilKor_39, Ksquared_39, Majeke_39, Mangethe_39, Megiddo_39, PaintedDog_45, PeanutPie_39, Phalm_39, Phegasus_39, Polkaroo_39, Pygmy_41, Shipwreck_41, StevieRay_39, StressBall_39, Thespis_39, Willsammy_38, Xeno_41,

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

Genes that do not have the "Most Annotated" start:
• BigNuz_42, MooMoo_55, Nazo_43, ThulaThula_46, Toron_64,

Summary by start number:

Start 3:
• Found in 29 of 34 (85.3%) of genes in pham

• Manual Annotations of this start: 26 of 30
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Atcoo_39 (P1), Bhagsy_39 (P1), Bogie_41 (P1), Brusacoram_39 (P1), Bunnies_39 (P1), CactusJack_39 (P1), Camster_39 (P1), Gavriela_39 (P1), Glaske_39 (P1), GreaseLightnin_39 (P1), Jung_38 (P1), Juniormint_39 (P1), KilKor_39 (P1), Ksquared_39 (P1), Majeke_39 (P1), Mangethe_39 (P1), Megiddo_39 (P1), PaintedDog_45 (I1), PeanutPie_39 (P1), Phalm_39 (P1), Phegasus_39 (P1), Polkaroo_39 (P1), Pygmy_41 (P1), Shipwreck_41 (P1), StevieRay_39 (P1), StressBall_39 (P1), Thespis_39 (P1), Willsammy_38 (P1), Xeno_41 (N),

Start 5:
• Found in 3 of 34 (8.8%) of genes in pham
• Manual Annotations of this start: 2 of 30
• Called 100.0% of time when present
• Phage (with cluster) where this start called: MooMoo_55 (singleton), ThulaThula_46 (P5), Toron_64 (F6),

Start 6:
• Found in 2 of 34 (5.9%) of genes in pham
• Manual Annotations of this start: 2 of 30
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BigNuz_42 (P4), Nazo_43 (P4),

Summary by clusters:

There are 7 clusters represented in this pham: singleton, P1, F6, P4, P5, I1, N,

Info for manual annotations of cluster N:
•Start number 3 was manually annotated 1 time for cluster N.

Info for manual annotations of cluster P1:
•Start number 3 was manually annotated 25 times for cluster P1.

Info for manual annotations of cluster P4:
•Start number 6 was manually annotated 2 times for cluster P4.

Info for manual annotations of cluster P5:
•Start number 5 was manually annotated 1 time for cluster P5.

Gene Information:

Gene: Atcoo_39 Start: 30787, Stop: 31020, Start Num: 3
Candidate Starts for Atcoo_39:
(1, 30397), (Start: 3 @30787 has 26 MA's), (8, 30850), (9, 30865), (13, 30961), (16, 31006),

Gene: Bhagsy_39 Start: 30302, Stop: 30535, Start Num: 3
Candidate Starts for Bhagsy_39:
(Start: 3 @30302 has 26 MA's), (8, 30365), (9, 30380), (13, 30476), (16, 30521),

Gene: BigNuz_42 Start: 32428, Stop: 32619, Start Num: 6
Candidate Starts for BigNuz_42:
(Start: 6 @32428 has 2 MA's), (11, 32509), (12, 32542), (13, 32560), (16, 32605),

Gene: Bogie_41 Start: 32086, Stop: 32319, Start Num: 3
Candidate Starts for Bogie_41:
(Start: 3 @32086 has 26 MA's), (4, 32107), (8, 32149), (9, 32164), (13, 32260), (16, 32305),

Gene: Brusacoram_39 Start: 30293, Stop: 30526, Start Num: 3
Candidate Starts for Brusacoram_39:
(1, 29903), (Start: 3 @30293 has 26 MA's), (8, 30356), (9, 30371), (13, 30467), (16, 30512),

Gene: Bunnies_39 Start: 30317, Stop: 30550, Start Num: 3
Candidate Starts for Bunnies_39:
(Start: 3 @30317 has 26 MA's), (8, 30380), (9, 30395), (13, 30491), (16, 30536),

Gene: CactusJack_39 Start: 30557, Stop: 30790, Start Num: 3
Candidate Starts for CactusJack_39:
(Start: 3 @30557 has 26 MA's), (8, 30620), (9, 30635), (13, 30731), (16, 30776),

Gene: Camster_39 Start: 30333, Stop: 30566, Start Num: 3
Candidate Starts for Camster_39:
(Start: 3 @30333 has 26 MA's), (4, 30354), (8, 30396), (9, 30411), (13, 30507), (16, 30552),

Gene: Gavriela_39 Start: 30557, Stop: 30790, Start Num: 3
Candidate Starts for Gavriela_39:
(Start: 3 @30557 has 26 MA's), (8, 30620), (9, 30635), (13, 30731), (16, 30776),

Gene: Glaske_39 Start: 30557, Stop: 30790, Start Num: 3
Candidate Starts for Glaske_39:
(Start: 3 @30557 has 26 MA's), (8, 30620), (9, 30635), (13, 30731), (16, 30776),

Gene: GreaseLightnin_39 Start: 30546, Stop: 30779, Start Num: 3
Candidate Starts for GreaseLightnin_39:
(1, 30156), (Start: 3 @30546 has 26 MA's), (8, 30609), (9, 30624), (13, 30720), (16, 30765),

Gene: Jung_38 Start: 30264, Stop: 30497, Start Num: 3
Candidate Starts for Jung_38:
(Start: 3 @30264 has 26 MA's), (8, 30327), (9, 30342), (13, 30438), (16, 30483),

Gene: Juniormint_39 Start: 30339, Stop: 30572, Start Num: 3
Candidate Starts for Juniormint_39:
(Start: 3 @30339 has 26 MA's), (8, 30402), (9, 30417), (13, 30513), (16, 30558),

Gene: KilKor_39 Start: 30557, Stop: 30790, Start Num: 3
Candidate Starts for KilKor_39:
(Start: 3 @30557 has 26 MA's), (8, 30620), (9, 30635), (13, 30731), (16, 30776),

Gene: Ksquared_39 Start: 30317, Stop: 30550, Start Num: 3
Candidate Starts for Ksquared_39:
(Start: 3 @30317 has 26 MA's), (8, 30380), (9, 30395), (13, 30491), (16, 30536),

Gene: Majeke_39 Start: 30351, Stop: 30584, Start Num: 3
Candidate Starts for Majeke_39:
(1, 29958), (Start: 3 @30351 has 26 MA's), (4, 30372), (7, 30411), (9, 30429), (13, 30525), (16, 30570),

Gene: Mangethe_39 Start: 30351, Stop: 30584, Start Num: 3
Candidate Starts for Mangethe_39:
(1, 29958), (Start: 3 @30351 has 26 MA's), (4, 30372), (7, 30411), (9, 30429), (13, 30525), (16, 30570),

Gene: Megiddo_39 Start: 30557, Stop: 30790, Start Num: 3
Candidate Starts for Megiddo_39:
(Start: 3 @30557 has 26 MA's), (8, 30620), (9, 30635), (13, 30731), (16, 30776),

Gene: MooMoo_55 Start: 38695, Stop: 38898, Start Num: 5
Candidate Starts for MooMoo_55:
(2, 38557), (Start: 5 @38695 has 2 MA's), (9, 38740), (14, 38860),

Gene: Nazo_43 Start: 32625, Stop: 32816, Start Num: 6
Candidate Starts for Nazo_43:
(Start: 6 @32625 has 2 MA's), (11, 32706), (12, 32739), (13, 32757), (16, 32802),

Gene: PaintedDog_45 Start: 32921, Stop: 33154, Start Num: 3
Candidate Starts for PaintedDog_45:
(Start: 3 @32921 has 26 MA's), (7, 32981), (8, 32984), (9, 32999), (10, 33020), (14, 33116), (16, 33140),

Gene: PeanutPie_39 Start: 30302, Stop: 30535, Start Num: 3
Candidate Starts for PeanutPie_39:
(Start: 3 @30302 has 26 MA's), (8, 30365), (9, 30380), (13, 30476), (16, 30521),

Gene: Phalm_39 Start: 30557, Stop: 30790, Start Num: 3
Candidate Starts for Phalm_39:
(Start: 3 @30557 has 26 MA's), (8, 30620), (9, 30635), (13, 30731), (16, 30776),

Gene: Phegasus_39 Start: 30318, Stop: 30551, Start Num: 3
Candidate Starts for Phegasus_39:
(1, 29925), (Start: 3 @30318 has 26 MA's), (4, 30339), (7, 30378), (9, 30396), (13, 30492), (16, 30537),

Gene: Polkaroo_39 Start: 30314, Stop: 30547, Start Num: 3
Candidate Starts for Polkaroo_39:
(Start: 3 @30314 has 26 MA's), (8, 30377), (9, 30392), (13, 30488), (16, 30533),

Gene: Pygmy_41 Start: 32142, Stop: 32375, Start Num: 3
Candidate Starts for Pygmy_41:
(Start: 3 @32142 has 26 MA's), (4, 32163), (8, 32205), (9, 32220), (13, 32316), (16, 32361),

Gene: Shipwreck_41 Start: 32117, Stop: 32350, Start Num: 3
Candidate Starts for Shipwreck_41:
(Start: 3 @32117 has 26 MA's), (4, 32138), (8, 32180), (9, 32195), (13, 32291), (16, 32336),

Gene: StevieRay_39 Start: 30259, Stop: 30492, Start Num: 3
Candidate Starts for StevieRay_39:
(Start: 3 @30259 has 26 MA's), (8, 30322), (9, 30337), (13, 30433), (16, 30478),

Gene: StressBall_39 Start: 30557, Stop: 30790, Start Num: 3
Candidate Starts for StressBall_39:
(Start: 3 @30557 has 26 MA's), (8, 30620), (9, 30635), (13, 30731), (16, 30776),

Gene: Thespis_39 Start: 30293, Stop: 30526, Start Num: 3
Candidate Starts for Thespis_39:
(1, 29903), (Start: 3 @30293 has 26 MA's), (8, 30356), (9, 30371), (13, 30467), (16, 30512),

Gene: ThulaThula_46 Start: 34718, Stop: 34912, Start Num: 5
Candidate Starts for ThulaThula_46:
(Start: 5 @34718 has 2 MA's), (8, 34742), (9, 34757), (11, 34802), (15, 34895), (16, 34898),

Gene: Toron_64 Start: 41626, Stop: 41829, Start Num: 5
Candidate Starts for Toron_64:
(Start: 5 @41626 has 2 MA's), (9, 41671), (14, 41791),

Gene: Willsammy_38 Start: 30040, Stop: 30273, Start Num: 3
Candidate Starts for Willsammy_38:
(Start: 3 @30040 has 26 MA's), (8, 30103), (9, 30118), (13, 30214), (16, 30259),

Gene: Xeno_41 Start: 29635, Stop: 29868, Start Num: 3
Candidate Starts for Xeno_41:
(1, 29245), (Start: 3 @29635 has 26 MA's), (8, 29698), (9, 29713), (13, 29809), (16, 29854),