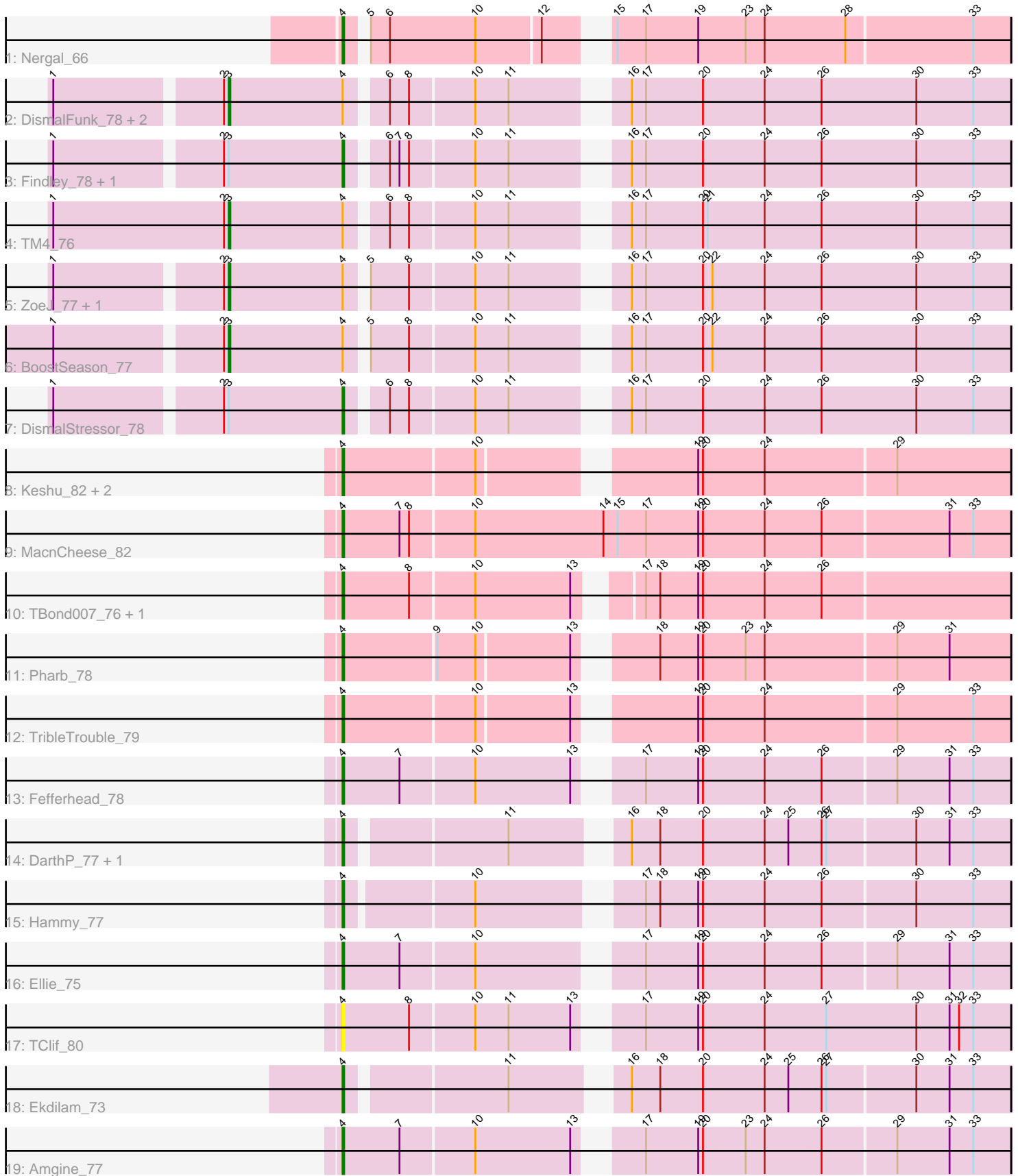


Pham 3303



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 3303 Report

This analysis was run 07/09/24 on database version 566.

Pham number 3303 has 27 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Nergal_66
- Track 2 : DismalFunk_78, Milly_78, Marcoliusprime_77
- Track 3 : Findley_78, Strobilo_79
- Track 4 : TM4_76
- Track 5 : ZoeJ_77, Mufasa_77
- Track 6 : BoostSeason_77
- Track 7 : DismalStressor_78
- Track 8 : Keshu_82, Hurricane_80, ShedlockHolmes_82
- Track 9 : MacnCheese_82
- Track 10 : TBond007_76, Pixie_79
- Track 11 : Pharb_78
- Track 12 : TribbleTrouble_79
- Track 13 : Fefferhead_78
- Track 14 : DarthP_77, Amohnition_77
- Track 15 : Hammy_77
- Track 16 : Ellie_75
- Track 17 : TClif_80
- Track 18 : Ekdilam_73
- Track 19 : Amgine_77

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

The start number called the most often in the published annotations is 4, it was called in 19 of the 26 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amgine_77, Amohnition_77, DarthP_77, DismalStressor_78, Ekdilam_73, Ellie_75, Fefferhead_78, Findley_78, Hammy_77, Hurricane_80, Keshu_82, MacnCheese_82, Nergal_66, Pharb_78, Pixie_79, ShedlockHolmes_82, Strobilo_79, TBond007_76, TClif_80, TribbleTrouble_79,

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

- BoostSeason_77, DismalFunk_78, Marcoliusprime_77, Milly_78, Mufasa_77, TM4_76, ZoeJ_77,

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

-

Summary by start number:

Start 3:

- Found in 10 of 27 (37.0%) of genes in pham
- Manual Annotations of this start: 7 of 26
- Called 70.0% of time when present
- Phage (with cluster) where this start called: BoostSeason_77 (K2), DismalFunk_78 (K2), Marcoliusprime_77 (K2), Milly_78 (K2), Mufasa_77 (K2), TM4_76 (K2), ZoeJ_77 (K2),

Start 4:

- Found in 27 of 27 (100.0%) of genes in pham
- Manual Annotations of this start: 19 of 26
- Called 74.1% of time when present
- Phage (with cluster) where this start called: Amgine_77 (K6), Amohnition_77 (K6), DarthP_77 (K6), DismalStressor_78 (K2), Ekdilam_73 (K6), Ellie_75 (K6), Fefferhead_78 (K6), Findley_78 (K2), Hammy_77 (K6), Hurricane_80 (K3), Keshu_82 (K3), MacnCheese_82 (K3), Nergal_66 (AG), Pharb_78 (K3), Pixie_79 (K3), ShedlockHolmes_82 (K3), Strobilo_79 (K2), TBond007_76 (K3), TClif_80 (K6), TripleTrouble_79 (K3),

Summary by clusters:

There are 4 clusters represented in this pham: K3, K2, K6, AG,

Info for manual annotations of cluster AG:

- Start number 4 was manually annotated 1 time for cluster AG.

Info for manual annotations of cluster K2:

- Start number 3 was manually annotated 7 times for cluster K2.
- Start number 4 was manually annotated 3 times for cluster K2.

Info for manual annotations of cluster K3:

- Start number 4 was manually annotated 8 times for cluster K3.

Info for manual annotations of cluster K6:

- Start number 4 was manually annotated 7 times for cluster K6.

Gene Information:

Gene: Amgine_77 Start: 52078, Stop: 52473, Start Num: 4

Candidate Starts for Amgine_77:

(Start: 4 @52078 has 19 MA's), (7, 52114), (10, 52159), (13, 52219), (17, 52246), (19, 52279), (20, 52282), (23, 52309), (24, 52321), (26, 52357), (29, 52402), (31, 52435), (33, 52450),

Gene: Amohnition_77 Start: 51971, Stop: 52357, Start Num: 4

Candidate Starts for Amohnition_77:

(Start: 4 @51971 has 19 MA's), (11, 52064), (16, 52121), (18, 52139), (20, 52166), (24, 52205), (25, 52220), (26, 52241), (27, 52244), (30, 52298), (31, 52319), (33, 52334),

Gene: BoostSeason_77 Start: 51486, Stop: 51947, Start Num: 3

Candidate Starts for BoostSeason_77:

(1, 51384), (2, 51483), (Start: 3 @51486 has 7 MA's), (Start: 4 @51558 has 19 MA's), (5, 51567), (8, 51591), (10, 51630), (11, 51651), (16, 51708), (17, 51717), (20, 51753), (22, 51759), (24, 51792), (26, 51828), (30, 51888), (33, 51924),

Gene: DarthP_77 Start: 51824, Stop: 52210, Start Num: 4

Candidate Starts for DarthP_77:

(Start: 4 @51824 has 19 MA's), (11, 51917), (16, 51974), (18, 51992), (20, 52019), (24, 52058), (25, 52073), (26, 52094), (27, 52097), (30, 52151), (31, 52172), (33, 52187),

Gene: DismalFunk_78 Start: 52015, Stop: 52476, Start Num: 3

Candidate Starts for DismalFunk_78:

(1, 51913), (2, 52012), (Start: 3 @52015 has 7 MA's), (Start: 4 @52087 has 19 MA's), (6, 52108), (8, 52120), (10, 52159), (11, 52180), (16, 52237), (17, 52246), (20, 52282), (24, 52321), (26, 52357), (30, 52417), (33, 52453),

Gene: DismalStressor_78 Start: 52087, Stop: 52476, Start Num: 4

Candidate Starts for DismalStressor_78:

(1, 51913), (2, 52012), (Start: 3 @52015 has 7 MA's), (Start: 4 @52087 has 19 MA's), (6, 52108), (8, 52120), (10, 52159), (11, 52180), (16, 52237), (17, 52246), (20, 52282), (24, 52321), (26, 52357), (30, 52417), (33, 52453),

Gene: Ekdilam_73 Start: 51776, Stop: 52162, Start Num: 4

Candidate Starts for Ekdilam_73:

(Start: 4 @51776 has 19 MA's), (11, 51869), (16, 51926), (18, 51944), (20, 51971), (24, 52010), (25, 52025), (26, 52046), (27, 52049), (30, 52103), (31, 52124), (33, 52139),

Gene: Ellie_75 Start: 51248, Stop: 51643, Start Num: 4

Candidate Starts for Ellie_75:

(Start: 4 @51248 has 19 MA's), (7, 51284), (10, 51329), (17, 51416), (19, 51449), (20, 51452), (24, 51491), (26, 51527), (29, 51572), (31, 51605), (33, 51620),

Gene: Fefferhead_78 Start: 51309, Stop: 51704, Start Num: 4

Candidate Starts for Fefferhead_78:

(Start: 4 @51309 has 19 MA's), (7, 51345), (10, 51390), (13, 51450), (17, 51477), (19, 51510), (20, 51513), (24, 51552), (26, 51588), (29, 51633), (31, 51666), (33, 51681),

Gene: Findley_78 Start: 52105, Stop: 52494, Start Num: 4

Candidate Starts for Findley_78:

(1, 51931), (2, 52030), (Start: 3 @52033 has 7 MA's), (Start: 4 @52105 has 19 MA's), (6, 52126), (7, 52132), (8, 52138), (10, 52177), (11, 52198), (16, 52255), (17, 52264), (20, 52300), (24, 52339), (26, 52375), (30, 52435), (33, 52471),

Gene: Hammy_77 Start: 51811, Stop: 52200, Start Num: 4

Candidate Starts for Hammy_77:

(Start: 4 @51811 has 19 MA's), (10, 51886), (17, 51973), (18, 51982), (19, 52006), (20, 52009), (24, 52048), (26, 52084), (30, 52141), (33, 52177),

Gene: Hurricane_80 Start: 52048, Stop: 52440, Start Num: 4

Candidate Starts for Hurricane_80:

(Start: 4 @52048 has 19 MA's), (10, 52129), (19, 52246), (20, 52249), (24, 52288), (29, 52369),

Gene: Keshu_82 Start: 52241, Stop: 52633, Start Num: 4

Candidate Starts for Keshu_82:

(Start: 4 @52241 has 19 MA's), (10, 52322), (19, 52439), (20, 52442), (24, 52481), (29, 52562),

Gene: MacnCheese_82 Start: 52664, Stop: 53080, Start Num: 4

Candidate Starts for MacnCheese_82:

(Start: 4 @52664 has 19 MA's), (7, 52700), (8, 52706), (10, 52745), (14, 52826), (15, 52835), (17, 52853), (19, 52886), (20, 52889), (24, 52928), (26, 52964), (31, 53042), (33, 53057),

Gene: Marcoliusprime_77 Start: 52015, Stop: 52476, Start Num: 3

Candidate Starts for Marcoliusprime_77:

(1, 51913), (2, 52012), (Start: 3 @52015 has 7 MA's), (Start: 4 @52087 has 19 MA's), (6, 52108), (8, 52120), (10, 52159), (11, 52180), (16, 52237), (17, 52246), (20, 52282), (24, 52321), (26, 52357), (30, 52417), (33, 52453),

Gene: Milly_78 Start: 52006, Stop: 52467, Start Num: 3

Candidate Starts for Milly_78:

(1, 51904), (2, 52003), (Start: 3 @52006 has 7 MA's), (Start: 4 @52078 has 19 MA's), (6, 52099), (8, 52111), (10, 52150), (11, 52171), (16, 52228), (17, 52237), (20, 52273), (24, 52312), (26, 52348), (30, 52408), (33, 52444),

Gene: Mufasa_77 Start: 51473, Stop: 51934, Start Num: 3

Candidate Starts for Mufasa_77:

(1, 51371), (2, 51470), (Start: 3 @51473 has 7 MA's), (Start: 4 @51545 has 19 MA's), (5, 51554), (8, 51578), (10, 51617), (11, 51638), (16, 51695), (17, 51704), (20, 51740), (22, 51746), (24, 51779), (26, 51815), (30, 51875), (33, 51911),

Gene: Nergal_66 Start: 46307, Stop: 46693, Start Num: 4

Candidate Starts for Nergal_66:

(Start: 4 @46307 has 19 MA's), (5, 46316), (6, 46328), (10, 46382), (12, 46421), (15, 46448), (17, 46466), (19, 46499), (23, 46529), (24, 46541), (28, 46592), (33, 46670),

Gene: Pharb_78 Start: 51321, Stop: 51713, Start Num: 4

Candidate Starts for Pharb_78:

(Start: 4 @51321 has 19 MA's), (9, 51378), (10, 51402), (13, 51459), (18, 51495), (19, 51519), (20, 51522), (23, 51549), (24, 51561), (29, 51642), (31, 51675),

Gene: Pixie_79 Start: 51629, Stop: 52024, Start Num: 4

Candidate Starts for Pixie_79:

(Start: 4 @51629 has 19 MA's), (8, 51671), (10, 51710), (13, 51770), (17, 51797), (18, 51806), (19, 51830), (20, 51833), (24, 51872), (26, 51908),

Gene: ShedlockHolmes_82 Start: 52145, Stop: 52537, Start Num: 4

Candidate Starts for ShedlockHolmes_82:

(Start: 4 @52145 has 19 MA's), (10, 52226), (19, 52343), (20, 52346), (24, 52385), (29, 52466),

Gene: Strobilo_79 Start: 52084, Stop: 52473, Start Num: 4

Candidate Starts for Strobilo_79:

(1, 51910), (2, 52009), (Start: 3 @52012 has 7 MA's), (Start: 4 @52084 has 19 MA's), (6, 52105), (7, 52111), (8, 52117), (10, 52156), (11, 52177), (16, 52234), (17, 52243), (20, 52279), (24, 52318), (26,

52354), (30, 52414), (33, 52450),

Gene: TBond007_76 Start: 51627, Stop: 52022, Start Num: 4

Candidate Starts for TBond007_76:

(Start: 4 @51627 has 19 MA's), (8, 51669), (10, 51708), (13, 51768), (17, 51795), (18, 51804), (19, 51828), (20, 51831), (24, 51870), (26, 51906),

Gene: TClif_80 Start: 51252, Stop: 51650, Start Num: 4

Candidate Starts for TClif_80:

(Start: 4 @51252 has 19 MA's), (8, 51294), (10, 51333), (11, 51354), (13, 51393), (17, 51420), (19, 51453), (20, 51456), (24, 51495), (27, 51534), (30, 51591), (31, 51612), (32, 51618), (33, 51627),

Gene: TM4_76 Start: 46446, Stop: 46907, Start Num: 3

Candidate Starts for TM4_76:

(1, 46335), (2, 46443), (Start: 3 @46446 has 7 MA's), (Start: 4 @46518 has 19 MA's), (6, 46539), (8, 46551), (10, 46590), (11, 46611), (16, 46668), (17, 46677), (20, 46713), (21, 46716), (24, 46752), (26, 46788), (30, 46848), (33, 46884),

Gene: TribbleTrouble_79 Start: 51849, Stop: 52241, Start Num: 4

Candidate Starts for TribbleTrouble_79:

(Start: 4 @51849 has 19 MA's), (10, 51930), (13, 51987), (19, 52047), (20, 52050), (24, 52089), (29, 52170), (33, 52218),

Gene: ZoeJ_77 Start: 51447, Stop: 51908, Start Num: 3

Candidate Starts for ZoeJ_77:

(1, 51345), (2, 51444), (Start: 3 @51447 has 7 MA's), (Start: 4 @51519 has 19 MA's), (5, 51528), (8, 51552), (10, 51591), (11, 51612), (16, 51669), (17, 51678), (20, 51714), (22, 51720), (24, 51753), (26, 51789), (30, 51849), (33, 51885),