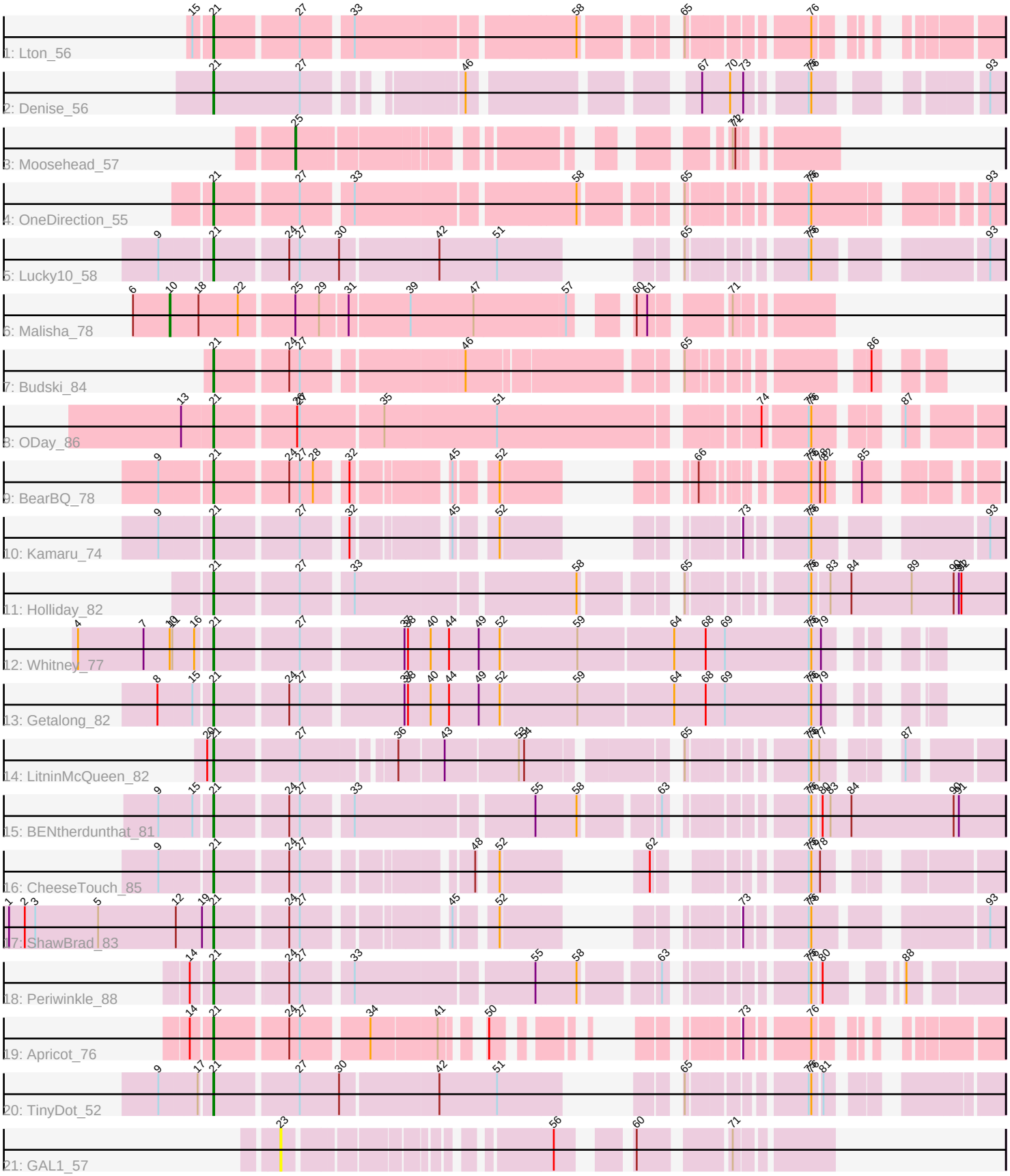
Pham 331237


1: Lton_56
2: Denise_56
3: Moosehead_57
4: OneDirection_55
5: Lucky10_58
6: Malisha_78
7: Budski_84
8: ODay_86
9: BearBQ_78
10: Kamaru_74
11: Holliday_82
12: Whitney_77
13: Getalong_82
14: LitninMcQueen_82
15: BENtherdunthat_81
16: CheeseTouch_85
17: ShawBrad_83
18: Periwinkle_88
19: Apricot_76
20: TinyDot_52
21: GAL1_57

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 331237 Report

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

Pham number 331237 has 21 members, 1 are drafts.

Phages represented in each track:
- Track 1 : Lton_56
- Track 2 : Denise_56
- Track 3 : Moosehead_57
- Track 4 : OneDirection_55
- Track 5 : Lucky10_58
- Track 6 : Malisha_78
- Track 7 : Budski_84
- Track 8 : ODay_86
- Track 9 : BearBQ_78
- Track 10 : Kamaru_74
- Track 11 : Holliday_82
- Track 12 : Whitney_77
- Track 13 : Getalong_82
- Track 14 : LitninMcQueen_82
- Track 15 : BENtherdunthat_81
- Track 16 : CheeseTouch_85
- Track 17 : ShawBrad_83
- Track 18 : Periwinkle_88
- Track 19 : Apricot_76
- Track 20 : TinyDot_52
- Track 21 : GAL1_57

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

The start number called the most often in the published annotations is 21, it was called in 18 of the 20 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
- Apricot_76, BENtherdunthat_81, BearBQ_78, Budski_84, CheeseTouch_85, Denise_56, Getalong_82, Holliday_82, Kamaru_74, LitninMcQueen_82, Lton_56, Lucky10_58, ODay_86, OneDirection_55, Periwinkle_88, ShawBrad_83, TinyDot_52, Whitney_77,

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

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Genes that do not have the "Most Annotated" start:
• GAL1_57, Malisha_78, Moosehead_57,

Summary by start number:

Start 10:
• Found in 2 of 21 (9.5%) of genes in pham
• Manual Annotations of this start: 1 of 20
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Malisha_78 (DN),

Start 21:
• Found in 18 of 21 (85.7%) of genes in pham
• Manual Annotations of this start: 18 of 20
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Apricot_76 (DN3), BENtherdunthat_81 (DN1), BearBQ_78 (DN), Budski_84 (DN), CheeseTouch_85 (DN1), Denise_56 (CZ5), Getalong_82 (DN1), Holliday_82 (DN1), Kamaru_74 (DN1), LitninMcQueen_82 (DN1), Lton_56 (CZ), Lucky10_58 (DH), ODay_86 (DN), OneDirection_55 (CZ6), Periwinkle_88 (DN1), ShawBrad_83 (DN1), TinyDot_52 (singleton), Whitney_77 (DN1),

Start 23:
• Found in 1 of 21 (4.8%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: GAL1_57 (singleton),

Start 25:
• Found in 2 of 21 (9.5%) of genes in pham
• Manual Annotations of this start: 1 of 20
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Moosehead_57 (CZ6),

Summary by clusters:

There are 8 clusters represented in this pham: DN, singleton, DH, CZ6, CZ5, CZ, DN1, DN3,

Info for manual annotations of cluster CZ:
•Start number 21 was manually annotated 1 time for cluster CZ.

Info for manual annotations of cluster CZ5:
•Start number 21 was manually annotated 1 time for cluster CZ5.

Info for manual annotations of cluster CZ6:
•Start number 21 was manually annotated 1 time for cluster CZ6.
•Start number 25 was manually annotated 1 time for cluster CZ6.

Info for manual annotations of cluster DH:
•Start number 21 was manually annotated 1 time for cluster DH.

Info for manual annotations of cluster DN:
•Start number 10 was manually annotated 1 time for cluster DN.
•Start number 21 was manually annotated 3 times for cluster DN.

Info for manual annotations of cluster DN1:
•Start number 21 was manually annotated 9 times for cluster DN1.

Info for manual annotations of cluster DN3:
•Start number 21 was manually annotated 1 time for cluster DN3.

Gene Information:

Gene: Apricot_76 Start: 43822, Stop: 44436, Start Num: 21
Candidate Starts for Apricot_76:
(14, 43801), (Start: 21 @43822 has 18 MA's), (24, 43900), (27, 43912), (34, 43981), (41, 44053), (50, 44080), (73, 44233), (76, 44296),

Gene: BENtherdunthat_81 Start: 45571, Stop: 46362, Start Num: 21
Candidate Starts for BENtherdunthat_81:
(9, 45517), (15, 45553), (Start: 21 @45571 has 18 MA's), (24, 45649), (27, 45661), (33, 45712), (55, 45901), (58, 45946), (63, 46021), (75, 46141), (76, 46144), (80, 46153), (83, 46162), (84, 46186), (90, 46303), (91, 46309),

Gene: BearBQ_78 Start: 46707, Stop: 47315, Start Num: 21
Candidate Starts for BearBQ_78:
(9, 46653), (Start: 21 @46707 has 18 MA's), (24, 46785), (27, 46797), (28, 46812), (32, 46842), (45, 46932), (52, 46968), (66, 47082), (75, 47169), (76, 47172), (78, 47181), (82, 47187), (85, 47208),

Gene: Budski_84 Start: 46675, Stop: 47340, Start Num: 21
Candidate Starts for Budski_84:
(Start: 21 @46675 has 18 MA's), (24, 46753), (27, 46765), (46, 46927), (65, 47131), (86, 47287),

Gene: CheeseTouch_85 Start: 42327, Stop: 42953, Start Num: 21
Candidate Starts for CheeseTouch_85:
(9, 42273), (Start: 21 @42327 has 18 MA's), (24, 42405), (27, 42417), (48, 42573), (52, 42588), (62, 42669), (75, 42789), (76, 42792), (78, 42801),

Gene: Denise_56 Start: 35910, Stop: 36626, Start Num: 21
Candidate Starts for Denise_56:
(Start: 21 @35910 has 18 MA's), (27, 36009), (46, 36150), (67, 36363), (70, 36393), (73, 36408), (75, 36465), (76, 36468), (93, 36609),

Gene: GAL1_57 Start: 38966, Stop: 39451, Start Num: 23
Candidate Starts for GAL1_57:
(23, 38966), (56, 39209), (60, 39266), (71, 39353),

Gene: Getalong_82 Start: 46997, Stop: 47734, Start Num: 21
Candidate Starts for Getalong_82:
(8, 46943), (15, 46979), (Start: 21 @46997 has 18 MA's), (24, 47075), (27, 47087), (37, 47195), (38, 47198), (40, 47222), (44, 47243), (49, 47276), (52, 47300), (59, 47384), (64, 47489), (68, 47525), (69,

47546), (75, 47642), (76, 47645), (79, 47654),

Gene: Holliday_82 Start: 48542, Stop: 49330, Start Num: 21
Candidate Starts for Holliday_82:
(Start: 21 @48542 has 18 MA's), (27, 48632), (33, 48683), (58, 48917), (65, 49001), (75, 49109), (76, 49112), (83, 49130), (84, 49154), (89, 49223), (90, 49271), (91, 49277), (92, 49280),

Gene: Kamaru_74 Start: 44161, Stop: 44814, Start Num: 21
Candidate Starts for Kamaru_74:
(9, 44107), (Start: 21 @44161 has 18 MA's), (27, 44251), (32, 44296), (45, 44386), (52, 44422), (73, 44575), (75, 44635), (76, 44638), (93, 44797),

Gene: LitninMcQueen_82 Start: 45874, Stop: 46599, Start Num: 21
Candidate Starts for LitninMcQueen_82:
(20, 45868), (Start: 21 @45874 has 18 MA's), (27, 45964), (36, 46054), (43, 46102), (53, 46180), (54, 46186), (65, 46327), (75, 46435), (76, 46438), (77, 46447), (87, 46504),

Gene: Lton_56 Start: 33761, Stop: 34471, Start Num: 21
Candidate Starts for Lton_56:
(15, 33743), (Start: 21 @33761 has 18 MA's), (27, 33851), (33, 33902), (58, 34136), (65, 34220), (76, 34331),

Gene: Lucky10_58 Start: 36978, Stop: 37679, Start Num: 21
Candidate Starts for Lucky10_58:
(9, 36924), (Start: 21 @36978 has 18 MA's), (24, 37056), (27, 37068), (30, 37113), (42, 37218), (51, 37284), (65, 37392), (75, 37500), (76, 37503), (93, 37662),

Gene: Malisha_78 Start: 47934, Stop: 48587, Start Num: 10
Candidate Starts for Malisha_78:
(6, 47892), (Start: 10 @47934 has 1 MA's), (18, 47967), (22, 48012), (Start: 25 @48069 has 1 MA's), (29, 48096), (31, 48126), (39, 48192), (47, 48264), (57, 48366), (60, 48405), (61, 48417), (71, 48489),

Gene: Moosehead_57 Start: 34222, Stop: 34680, Start Num: 25
Candidate Starts for Moosehead_57:
(Start: 25 @34222 has 1 MA's), (71, 34585), (72, 34588),

Gene: ODay_86 Start: 47792, Stop: 48577, Start Num: 21
Candidate Starts for ODay_86:
(13, 47759), (Start: 21 @47792 has 18 MA's), (26, 47879), (27, 47882), (35, 47972), (51, 48098), (74, 48365), (75, 48413), (76, 48416), (87, 48482),

Gene: OneDirection_55 Start: 33949, Stop: 34695, Start Num: 21
Candidate Starts for OneDirection_55:
(Start: 21 @33949 has 18 MA's), (27, 34039), (33, 34090), (58, 34324), (65, 34408), (75, 34516), (76, 34519), (93, 34678),

Gene: Periwinkle_88 Start: 47628, Stop: 48359, Start Num: 21
Candidate Starts for Periwinkle_88:
(14, 47607), (Start: 21 @47628 has 18 MA's), (24, 47703), (27, 47715), (33, 47766), (55, 47955), (58, 48000), (63, 48075), (75, 48195), (76, 48198), (80, 48207), (88, 48264),

Gene: ShawBrad_83 Start: 45314, Stop: 45967, Start Num: 21
Candidate Starts for ShawBrad_83:

(1, 45086), (2, 45104), (3, 45116), (5, 45188), (12, 45275), (19, 45302), (Start: 21 @45314 has 18 MA's), (24, 45392), (27, 45404), (45, 45539), (52, 45575), (73, 45728), (75, 45788), (76, 45791), (93, 45950),

Gene: TinyDot_52 Start: 33073, Stop: 33759, Start Num: 21
Candidate Starts for TinyDot_52:
(9, 33019), (17, 33061), (Start: 21 @33073 has 18 MA's), (27, 33163), (30, 33208), (42, 33313), (51, 33379), (65, 33487), (75, 33595), (76, 33598), (81, 33607),

Gene: Whitney_77 Start: 46318, Stop: 47055, Start Num: 21
Candidate Starts for Whitney_77:
(4, 46171), (7, 46246), (Start: 10 @46276 has 1 MA's), (11, 46279), (16, 46303), (Start: 21 @46318 has 18 MA's), (27, 46408), (37, 46516), (38, 46519), (40, 46543), (44, 46564), (49, 46597), (52, 46621), (59, 46705), (64, 46810), (68, 46846), (69, 46867), (75, 46963), (76, 46966), (79, 46975),