Pham 190116


1: Cassia_47
2: Crewmate_54
3: Sue2_50
4: ObiToo_53
5: TforTroy_49
6: Maureen_48 + 1
7: Tweety19_47 + 1
8: JasmineDragon_52 + 2
9: VroomVroom_49
10: SCentae_200 + 2
11: Sonali_37
12: Mufasa8_35
13: CallinAllBarbz_47
14: Cantare_91

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 190116 Report

This analysis was run 11/02/24 on database version 579.

Pham number 190116 has 20 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Cassia_47
• Track 2 : Crewmate_54
• Track 3 : Sue2_50
• Track 4 : ObiToo_53
• Track 5 : TforTroy_49
• Track 6 : Maureen_48, Liebe_48
• Track 7 : Tweety19_47, Snek_46
• Track 8 : JasmineDragon_52, ShakeItOph_54, MiniMommy_54
• Track 9 : VroomVroom_49
• Track 10 : SCentae_200, Pupper_201, CherryTomatoes_203
• Track 11 : Sonali_37
• Track 12 : Mufasa8_35
• Track 13 : CallinAllBarbz_47
• Track 14 : Cantare_91

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

The start number called the most often in the published annotations is 6, it was called in 11 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• CallinAllBarbz_47, Cassia_47, Crewmate_54, JasmineDragon_52, MiniMommy_54, ObiToo_53, ShakeItOph_54, Snek_46, Sonali_37, Sue2_50, TforTroy_49, Tweety19_47, VroomVroom_49,

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:
• Cantare_91, CherryTomatoes_203, Liebe_48, Maureen_48, Mufasa8_35, Pupper_201, SCentae_200,

Summary by start number:

Start 4:
• Found in 1 of 20 (5.0%) of genes in pham
• Manual Annotations of this start: 1 of 18
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Mufasa8_35 (FG),

Start 5:
• Found in 3 of 20 (15.0%) of genes in pham
• Manual Annotations of this start: 3 of 18
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cantare_91 (singleton), Liebe_48 (AZ2), Maureen_48 (AZ2),

Start 6:
• Found in 13 of 20 (65.0%) of genes in pham
• Manual Annotations of this start: 11 of 18
• Called 100.0% of time when present
• Phage (with cluster) where this start called: CallinAllBarbz_47 (FP), Cassia_47 (AZ1), Crewmate_54 (AZ1), JasmineDragon_52 (AZ4), MiniMommy_54 (AZ4), ObiToo_53 (AZ1), ShakeItOph_54 (AZ4), Snek_46 (AZ3), Sonali_37 (FG), Sue2_50 (AZ1), TforTroy_49 (AZ1), Tweety19_47 (AZ3), VroomVroom_49 (AZ4),

Start 10:
• Found in 3 of 20 (15.0%) of genes in pham
• Manual Annotations of this start: 3 of 18
• Called 100.0% of time when present
• Phage (with cluster) where this start called: CherryTomatoes_203 (DO), Pupper_201 (DO), SCentae_200 (DO),

Summary by clusters:

There are 8 clusters represented in this pham: FP, DO, singleton, FG, AZ1, AZ2, AZ3, AZ4,

Info for manual annotations of cluster AZ1:
•Start number 6 was manually annotated 5 times for cluster AZ1.

Info for manual annotations of cluster AZ2:
•Start number 5 was manually annotated 2 times for cluster AZ2.

Info for manual annotations of cluster AZ3:
•Start number 6 was manually annotated 2 times for cluster AZ3.

Info for manual annotations of cluster AZ4:
•Start number 6 was manually annotated 2 times for cluster AZ4.

Info for manual annotations of cluster DO:
•Start number 10 was manually annotated 3 times for cluster DO.

Info for manual annotations of cluster FG:
•Start number 4 was manually annotated 1 time for cluster FG.
•Start number 6 was manually annotated 1 time for cluster FG.

Info for manual annotations of cluster FP:
•Start number 6 was manually annotated 1 time for cluster FP.

Gene Information:

Gene: CallinAllBarbz_47 Start: 33759, Stop: 34640, Start Num: 6
Candidate Starts for CallinAllBarbz_47:
(Start: 6 @33759 has 11 MA's), (23, 34131), (35, 34503),

Gene: Cantare_91 Start: 69371, Stop: 70267, Start Num: 5
Candidate Starts for Cantare_91:
(Start: 5 @69371 has 3 MA's), (15, 69572), (16, 69575), (22, 69716), (27, 69923), (29, 69971), (33, 70043), (34, 70091), (36, 70124), (38, 70232), (39, 70235),

Gene: Cassia_47 Start: 34201, Stop: 35019, Start Num: 6
Candidate Starts for Cassia_47:
(2, 34132), (3, 34150), (Start: 6 @34201 has 11 MA's), (13, 34381), (32, 34816),

Gene: CherryTomatoes_203 Start: 138518, Stop: 139312, Start Num: 10
Candidate Starts for CherryTomatoes_203:
(7, 138437), (Start: 10 @138518 has 3 MA's),

Gene: Crewmate_54 Start: 35949, Stop: 36764, Start Num: 6
Candidate Starts for Crewmate_54:
(1, 35871), (Start: 6 @35949 has 11 MA's), (11, 36108), (32, 36561),

Gene: JasmineDragon_52 Start: 35594, Stop: 36457, Start Num: 6
Candidate Starts for JasmineDragon_52:
(Start: 6 @35594 has 11 MA's), (8, 35648), (14, 35786), (24, 36014), (37, 36380),

Gene: Liebe_48 Start: 35450, Stop: 36277, Start Num: 5
Candidate Starts for Liebe_48:
(Start: 5 @35450 has 3 MA's), (9, 35549), (12, 35627), (21, 35792), (28, 36002), (31, 36059), (32, 36074),

Gene: Maureen_48 Start: 35450, Stop: 36277, Start Num: 5
Candidate Starts for Maureen_48:
(Start: 5 @35450 has 3 MA's), (9, 35549), (12, 35627), (21, 35792), (28, 36002), (31, 36059), (32, 36074),

Gene: MiniMommy_54 Start: 35595, Stop: 36458, Start Num: 6
Candidate Starts for MiniMommy_54:
(Start: 6 @35595 has 11 MA's), (8, 35649), (14, 35787), (24, 36015), (37, 36381),

Gene: Mufasa8_35 Start: 29933, Stop: 29103, Start Num: 4
Candidate Starts for Mufasa8_35:
(Start: 4 @29933 has 1 MA's), (14, 29732), (20, 29594), (29, 29333),

Gene: ObiToo_53 Start: 35343, Stop: 36158, Start Num: 6
Candidate Starts for ObiToo_53:
(1, 35265), (Start: 6 @35343 has 11 MA's), (13, 35520), (32, 35955),

Gene: Pupper_201 Start: 138380, Stop: 139174, Start Num: 10
Candidate Starts for Pupper_201:
(7, 138299), (Start: 10 @138380 has 3 MA's),

Gene: SCentae_200 Start: 138572, Stop: 139366, Start Num: 10
Candidate Starts for SCentae_200:
(7, 138491), (Start: 10 @138572 has 3 MA's),

Gene: ShakeItOph_54 Start: 35594, Stop: 36457, Start Num: 6
Candidate Starts for ShakeItOph_54:
(Start: 6 @35594 has 11 MA's), (8, 35648), (14, 35786), (24, 36014), (37, 36380),

Gene: Snek_46 Start: 32794, Stop: 33606, Start Num: 6
Candidate Starts for Snek_46:
(Start: 6 @32794 has 11 MA's), (17, 32998), (21, 33118), (26, 33235), (32, 33400),

Gene: Sonali_37 Start: 32584, Stop: 31769, Start Num: 6
Candidate Starts for Sonali_37:
(Start: 6 @32584 has 11 MA's), (21, 32254), (25, 32152), (29, 31999), (32, 31972),

Gene: Sue2_50 Start: 35531, Stop: 36343, Start Num: 6
Candidate Starts for Sue2_50:
(Start: 6 @35531 has 11 MA's), (18, 35753), (21, 35858), (30, 36122), (32, 36140),

Gene: TforTroy_49 Start: 34740, Stop: 35558, Start Num: 6
Candidate Starts for TforTroy_49:
(Start: 6 @34740 has 11 MA's), (13, 34920), (32, 35355),

Gene: Tweety19_47 Start: 32794, Stop: 33606, Start Num: 6
Candidate Starts for Tweety19_47:
(Start: 6 @32794 has 11 MA's), (17, 32998), (21, 33118), (26, 33235), (32, 33400),

Gene: VroomVroom_49 Start: 35179, Stop: 36042, Start Num: 6
Candidate Starts for VroomVroom_49:
(Start: 6 @35179 has 11 MA's), (14, 35371), (19, 35500), (37, 35965),