Pham 3370

1: Brent_53 + 1
2: King2_52
3: NathanVaag_52
4: Jawnski_52
5: Piccoletto_53
6: Beans_53
7: Zartrosa_56 + 2
8: LeeroyJ_55 + 1
9: Sicarius2_55
10: GravityBall_56
11: StevieBAY_56
12: Grekaycon_57 + 1
13: Wyborn_55
14: Timinator_56
15: Martha_57 + 1
16: Pippa_57
17: Shade_56
18: JKerns_56

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 3370 Report

This analysis was run 04/12/24 on database version 558.

Pham number 3370 has 24 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Brent_53, Franzy_53
• Track 2 : King2_52
• Track 3 : NathanVaag_52
• Track 4 : Jawnski_52
• Track 5 : Piccoletto_53
• Track 6 : Beans_53
• Track 7 : Zartrosa_56, Sonny_55, Jordan_56
• Track 8 : LeeroyJ_55, BarretLemon_55
• Track 9 : Sicarius2_55
• Track 10 : GravityBall_56
• Track 11 : StevieBAY_56
• Track 12 : Grekaycon_57, BossLady_58
• Track 13 : Wyborn_55
• Track 14 : Timinator_56
• Track 15 : Martha_57, TaeYoung_58
• Track 16 : Pippa_57
• Track 17 : Shade_56
• Track 18 : JKerns_56

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

The start number called the most often in the published annotations is 2, it was called in 19 of the 23 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• BarretLemon_55, Beans_53, BossLady_58, GravityBall_56, Grekaycon_57, JKerns_56, Jordan_56, LeeroyJ_55, Martha_57, NathanVaag_52, Piccoletto_53, Pippa_57, Shade_56, Sicarius2_55, Sonny_55, StevieBAY_56, TaeYoung_58, Timinator_56, Wyborn_55, Zartrosa_56,

Genes that have the "Most Annotated" start but do not call it:
• Brent_53, Franzy_53, Jawnski_52, King2_52,

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

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Summary by start number:

Start 1:
• Found in 4 of 24 (16.7%) of genes in pham
• Manual Annotations of this start: 4 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Brent_53 (AO1), Franzy_53 (AO1), Jawnski_52 (AO1), King2_52 (AO1),

Start 2:
• Found in 24 of 24 (100.0%) of genes in pham
• Manual Annotations of this start: 19 of 23
• Called 83.3% of time when present
• Phage (with cluster) where this start called: BarretLemon_55 (AO2), Beans_53 (AO1), BossLady_58 (AO2), GravityBall_56 (AO2), Grekaycon_57 (AO2), JKerns_56 (AO2), Jordan_56 (AO2), LeeroyJ_55 (AO2), Martha_57 (AO2), NathanVaag_52 (AO1), Piccoletto_53 (AO1), Pippa_57 (AO2), Shade_56 (AO2), Sicarius2_55 (AO2), Sonny_55 (AO2), StevieBAY_56 (AO2), TaeYoung_58 (AO2), Timinator_56 (AO2), Wyborn_55 (AO2), Zartrosa_56 (AO2),

Summary by clusters:

There are 2 clusters represented in this pham: AO2, AO1,

Info for manual annotations of cluster AO1:
•Start number 1 was manually annotated 4 times for cluster AO1.
•Start number 2 was manually annotated 3 times for cluster AO1.

Info for manual annotations of cluster AO2:
•Start number 2 was manually annotated 16 times for cluster AO2.

Gene Information:

Gene: BarretLemon_55 Start: 38987, Stop: 39955, Start Num: 2
Candidate Starts for BarretLemon_55:
(Start: 2 @38987 has 19 MA's), (4, 39080), (7, 39152), (19, 39443), (21, 39461), (46, 39941), (47, 39944),

Gene: Beans_53 Start: 38862, Stop: 39863, Start Num: 2
Candidate Starts for Beans_53:
(Start: 2 @38862 has 19 MA's), (5, 39000), (6, 39012), (7, 39027), (15, 39297), (24, 39423), (25, 39444), (27, 39486), (31, 39546), (35, 39696), (39, 39735), (40, 39738), (45, 39819), (48, 39852),

Gene: BossLady_58 Start: 39639, Stop: 40502, Start Num: 2
Candidate Starts for BossLady_58:
(Start: 2 @39639 has 19 MA's), (3, 39720), (7, 39801), (10, 39930), (11, 39966), (12, 39981), (16, 40077), (17, 40080), (19, 40104), (30, 40287), (31, 40299),

Gene: Brent_53 Start: 39143, Stop: 40102, Start Num: 1

Candidate Starts for Brent_53:
(Start: 1 @39143 has 4 MA's), (Start: 2 @39149 has 19 MA's), (5, 39287), (7, 39314), (8, 39338), (17, 39590), (20, 39620), (27, 39746), (30, 39794), (31, 39806), (35, 39956), (39, 39995), (40, 39998), (41, 40019), (42, 40031), (48, 40091),

Gene: Franzy_53 Start: 39159, Stop: 40118, Start Num: 1
Candidate Starts for Franzy_53:
(Start: 1 @39159 has 4 MA's), (Start: 2 @39165 has 19 MA's), (5, 39303), (7, 39330), (8, 39354), (17, 39606), (20, 39636), (27, 39762), (30, 39810), (31, 39822), (35, 39972), (39, 40011), (40, 40014), (41, 40035), (42, 40047), (48, 40107),

Gene: GravityBall_56 Start: 39440, Stop: 40417, Start Num: 2
Candidate Starts for GravityBall_56:
(Start: 2 @39440 has 19 MA's), (5, 39587), (7, 39614), (8, 39638), (19, 39905), (21, 39923), (30, 40109), (43, 40349), (47, 40406),

Gene: Grekaycon_57 Start: 39519, Stop: 40382, Start Num: 2
Candidate Starts for Grekaycon_57:
(Start: 2 @39519 has 19 MA's), (3, 39600), (7, 39681), (10, 39810), (11, 39846), (12, 39861), (16, 39957), (17, 39960), (19, 39984), (30, 40167), (31, 40179),

Gene: JKerns_56 Start: 39585, Stop: 40442, Start Num: 2
Candidate Starts for JKerns_56:
(Start: 2 @39585 has 19 MA's), (3, 39666), (7, 39747), (11, 39912), (12, 39927), (16, 40023), (17, 40026), (19, 40050), (31, 40245),

Gene: Jawnski_52 Start: 38668, Stop: 39627, Start Num: 1
Candidate Starts for Jawnski_52:
(Start: 1 @38668 has 4 MA's), (Start: 2 @38674 has 19 MA's), (5, 38812), (7, 38839), (8, 38863), (17, 39115), (20, 39145), (27, 39271), (30, 39319), (31, 39331), (35, 39481), (39, 39520), (40, 39523), (48, 39616),

Gene: Jordan_56 Start: 39399, Stop: 40256, Start Num: 2
Candidate Starts for Jordan_56:
(Start: 2 @39399 has 19 MA's), (3, 39480), (7, 39561), (11, 39726), (12, 39741), (16, 39837), (17, 39840), (19, 39864), (31, 40059),

Gene: King2_52 Start: 39047, Stop: 39979, Start Num: 1
Candidate Starts for King2_52:
(Start: 1 @39047 has 4 MA's), (Start: 2 @39053 has 19 MA's), (5, 39191), (7, 39218), (8, 39242), (9, 39284), (15, 39485), (17, 39494), (20, 39524), (27, 39638), (31, 39698), (35, 39848), (40, 39875), (42, 39908), (48, 39968),

Gene: LeeroyJ_55 Start: 39016, Stop: 39984, Start Num: 2
Candidate Starts for LeeroyJ_55:
(Start: 2 @39016 has 19 MA's), (4, 39109), (7, 39181), (19, 39472), (21, 39490), (46, 39970), (47, 39973),

Gene: Martha_57 Start: 39621, Stop: 40487, Start Num: 2
Candidate Starts for Martha_57:
(Start: 2 @39621 has 19 MA's), (7, 39786), (10, 39915), (11, 39951), (12, 39966), (16, 40062), (17, 40065), (31, 40284),

Gene: NathanVaag_52 Start: 38687, Stop: 39637, Start Num: 2
Candidate Starts for NathanVaag_52:
(Start: 2 @38687 has 19 MA's), (4, 38780), (7, 38852), (8, 38876), (31, 39341), (35, 39491), (39, 39530), (40, 39533), (41, 39554), (48, 39626),

Gene: Piccoletto_53 Start: 38880, Stop: 39830, Start Num: 2
Candidate Starts for Piccoletto_53:
(Start: 2 @38880 has 19 MA's), (4, 38973), (7, 39045), (8, 39069), (34, 39618), (35, 39684), (39, 39723), (40, 39726), (41, 39747), (48, 39819),

Gene: Pippa_57 Start: 39526, Stop: 40458, Start Num: 2
Candidate Starts for Pippa_57:
(Start: 2 @39526 has 19 MA's), (3, 39607), (7, 39688), (11, 39853), (12, 39868), (16, 39964), (17, 39967), (19, 39991), (26, 40114), (28, 40150), (29, 40171), (32, 40234), (36, 40390), (37, 40393),

Gene: Shade_56 Start: 39324, Stop: 40178, Start Num: 2
Candidate Starts for Shade_56:
(Start: 2 @39324 has 19 MA's), (3, 39405), (7, 39486), (11, 39651), (12, 39666), (16, 39762), (17, 39765), (19, 39789), (22, 39843), (30, 39969), (31, 39981),

Gene: Sicarius2_55 Start: 37455, Stop: 38219, Start Num: 2
Candidate Starts for Sicarius2_55:
(Start: 2 @37455 has 19 MA's), (14, 37803), (18, 37857), (23, 37917),

Gene: Sonny_55 Start: 39068, Stop: 39928, Start Num: 2
Candidate Starts for Sonny_55:
(Start: 2 @39068 has 19 MA's), (3, 39149), (7, 39230), (11, 39395), (12, 39410), (16, 39506), (17, 39509), (19, 39533), (31, 39731),

Gene: StevieBAY_56 Start: 39437, Stop: 40414, Start Num: 2
Candidate Starts for StevieBAY_56:
(Start: 2 @39437 has 19 MA's), (5, 39584), (7, 39611), (8, 39635), (19, 39902), (21, 39920), (30, 40106), (47, 40403),

Gene: TaeYoung_58 Start: 39594, Stop: 40460, Start Num: 2
Candidate Starts for TaeYoung_58:
(Start: 2 @39594 has 19 MA's), (7, 39759), (10, 39888), (11, 39924), (12, 39939), (16, 40035), (17, 40038), (31, 40257),

Gene: Timinator_56 Start: 39304, Stop: 40266, Start Num: 2
Candidate Starts for Timinator_56:
(Start: 2 @39304 has 19 MA's), (4, 39397), (7, 39469), (19, 39760), (21, 39778), (29, 39952), (31, 39982), (33, 40045), (38, 40189), (44, 40243),

Gene: Wyborn_55 Start: 38435, Stop: 39229, Start Num: 2
Candidate Starts for Wyborn_55:
(Start: 2 @38435 has 19 MA's), (13, 38762), (23, 38927),

Gene: Zartrosa_56 Start: 39369, Stop: 40226, Start Num: 2
Candidate Starts for Zartrosa_56:
(Start: 2 @39369 has 19 MA's), (3, 39450), (7, 39531), (11, 39696), (12, 39711), (16, 39807), (17, 39810), (19, 39834), (31, 40029),