

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 224745 Report

This analysis was run 03/28/25 on database version 593.

Pham number 224745 has 36 members, 5 are drafts.

Phages represented in each track:

- Track 1 : EastWest_67
- Track 2 : Beans_61, NathanVaag_60, Piccoletto_61
- Track 3 : Franzy_59, Brent_60, Jawnski_59
- Track 4 : King2_59
- Track 5 : Sicarius2_66
- Track 6 : Wyborn_65
- Track 7 : Abba_60
- Track 8 : Nostromo_60
- Track 9 : HumptyDumpty_108, JayCookie_109, EdgarPoe_108, Kabreeze_108, Linus_109, Chipper1996_1090, Scavito_109, PrincessTrina_109, Chubster_109, JaNo_107, Chocolat_108, RosiePosie_109, MoyaNatalis_109, Mordred_108, Conboy_108
- Track 10 : Colucci_111
- Track 11 : DrYang_102
- Track 12 : KBurrousTX_104
- Track 13 : Lymara_106
- Track 14 : GoldDust_68
- Track 15 : Hirko_71
- Track 16 : Vitus_71
- Track 17 : Jinkies_78
- Track 18 : Lukepolites_60

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

The start number called the most often in the published annotations is 11, it was called in 17 of the 31 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Chipper1996_1090, Chocolat_108, Chubster_109, Colucci_111, Conboy_108, EdgarPoe_108, HumptyDumpty_108, JaNo_107, JayCookie_109, KBurrousTX_104, Kabreeze_108, Linus_109, Lymara_106, Mordred_108, MoyaNatalis_109, PrincessTrina_109, RosiePosie_109, Scavito_109,

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:

- Abba_60, Beans_61, Brent_60, DrYang_102, EastWest_67, Franzy_59, GoldDust_68, Hirko_71, Jawnski_59, Jinkies_78, King2_59, Lukepolites_60, NathanVaag_60, Nostromo_60, Piccoletto_61, Sicarius2_66, Vitus_71, Wyborn_65,

Summary by start number:

Start 10:

- Found in 1 of 36 (2.8%) of genes in pham
- Manual Annotations of this start: 1 of 31
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DrYang_102 (AR),

Start 11:

- Found in 18 of 36 (50.0%) of genes in pham
- Manual Annotations of this start: 17 of 31
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Chipper1996_1090 (AR), Chocolat_108 (AR), Chubster_109 (AR), Colucci_111 (AR), Conboy_108 (AR), EdgarPoe_108 (AR), HumptyDumpty_108 (AR), JaNo_107 (AR), JayCookie_109 (AR), KBurrousTX_104 (AR), Kabreeze_108 (AR), Linus_109 (AR), Lymara_106 (AR), Mordred_108 (AR), MoyaNatalis_109 (AR), PrincessTrina_109 (AR), RosiePosie_109 (AR), Scavito_109 (AR),

Start 12:

- Found in 4 of 36 (11.1%) of genes in pham
- Manual Annotations of this start: 2 of 31
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GoldDust_68 (FL), Hirko_71 (FL), Jinkies_78 (FL), Vitus_71 (FL),

Start 13:

- Found in 12 of 36 (33.3%) of genes in pham
- Manual Annotations of this start: 11 of 31
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abba_60 (AO3), Beans_61 (AO1), Brent_60 (AO1), EastWest_67 (AO), Franzy_59 (AO1), Jawnski_59 (AO1), King2_59 (AO1), NathanVaag_60 (AO1), Nostromo_60 (AO3), Piccoletto_61 (AO1), Sicarius2_66 (AO2), Wyborn_65 (AO2),

Start 14:

- Found in 1 of 36 (2.8%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Lukepolites_60 (singleton),

Summary by clusters:

There are 7 clusters represented in this pham: singleton, AO, AR, AO3, AO2, AO1, FL,

Info for manual annotations of cluster AO:

- Start number 13 was manually annotated 1 time for cluster AO.

Info for manual annotations of cluster AO1:

- Start number 13 was manually annotated 7 times for cluster AO1.

Info for manual annotations of cluster AO2:

- Start number 13 was manually annotated 2 times for cluster AO2.

Info for manual annotations of cluster AO3:

- Start number 13 was manually annotated 1 time for cluster AO3.

Info for manual annotations of cluster AR:

- Start number 10 was manually annotated 1 time for cluster AR.
- Start number 11 was manually annotated 17 times for cluster AR.

Info for manual annotations of cluster FL:

- Start number 12 was manually annotated 2 times for cluster FL.

Gene Information:

Gene: Abba_60 Start: 38967, Stop: 39098, Start Num: 13

Candidate Starts for Abba_60:

(Start: 13 @38967 has 11 MA's),

Gene: Beans_61 Start: 41664, Stop: 41792, Start Num: 13

Candidate Starts for Beans_61:

(Start: 13 @41664 has 11 MA's), (20, 41727), (21, 41745), (24, 41760),

Gene: Brent_60 Start: 41735, Stop: 41863, Start Num: 13

Candidate Starts for Brent_60:

(Start: 13 @41735 has 11 MA's), (20, 41798), (21, 41816), (24, 41831),

Gene: Chipper1996_1090 Start: 68691, Stop: 68834, Start Num: 11

Candidate Starts for Chipper1996_1090:

(7, 68664), (Start: 11 @68691 has 17 MA's), (15, 68724), (16, 68742), (19, 68763), (20, 68775), (23, 68805),

Gene: Chocolat_108 Start: 68402, Stop: 68545, Start Num: 11

Candidate Starts for Chocolat_108:

(7, 68375), (Start: 11 @68402 has 17 MA's), (15, 68435), (16, 68453), (19, 68474), (20, 68486), (23, 68516),

Gene: Chubster_109 Start: 68859, Stop: 69002, Start Num: 11

Candidate Starts for Chubster_109:

(7, 68832), (Start: 11 @68859 has 17 MA's), (15, 68892), (16, 68910), (19, 68931), (20, 68943), (23, 68973),

Gene: Colucci_111 Start: 69295, Stop: 69438, Start Num: 11

Candidate Starts for Colucci_111:

(7, 69268), (Start: 11 @69295 has 17 MA's), (15, 69328), (16, 69346), (18, 69358), (20, 69379), (22, 69400), (23, 69409),

Gene: Conboy_108 Start: 68696, Stop: 68839, Start Num: 11

Candidate Starts for Conboy_108:

(7, 68669), (Start: 11 @68696 has 17 MA's), (15, 68729), (16, 68747), (19, 68768), (20, 68780), (23, 68810),

Gene: DrYang_102 Start: 67623, Stop: 67781, Start Num: 10

Candidate Starts for DrYang_102:

(2, 67518), (4, 67575), (Start: 10 @67623 has 1 MA's), (15, 67671), (17, 67695), (19, 67710), (20, 67722), (23, 67752), (24, 67755),

Gene: EastWest_67 Start: 40934, Stop: 41056, Start Num: 13

Candidate Starts for EastWest_67:

(Start: 13 @40934 has 11 MA's), (20, 40994), (24, 41027),

Gene: EdgarPoe_108 Start: 68776, Stop: 68919, Start Num: 11

Candidate Starts for EdgarPoe_108:

(7, 68749), (Start: 11 @68776 has 17 MA's), (15, 68809), (16, 68827), (19, 68848), (20, 68860), (23, 68890),

Gene: Franzy_59 Start: 41751, Stop: 41879, Start Num: 13

Candidate Starts for Franzy_59:

(Start: 13 @41751 has 11 MA's), (20, 41814), (21, 41832), (24, 41847),

Gene: GoldDust_68 Start: 45468, Stop: 45593, Start Num: 12

Candidate Starts for GoldDust_68:

(1, 45261), (5, 45399), (6, 45408), (Start: 12 @45468 has 2 MA's),

Gene: Hirko_71 Start: 45175, Stop: 45303, Start Num: 12

Candidate Starts for Hirko_71:

(9, 45142), (Start: 12 @45175 has 2 MA's),

Gene: HumptyDumpty_108 Start: 68579, Stop: 68722, Start Num: 11

Candidate Starts for HumptyDumpty_108:

(7, 68552), (Start: 11 @68579 has 17 MA's), (15, 68612), (16, 68630), (19, 68651), (20, 68663), (23, 68693),

Gene: JaNo_107 Start: 68550, Stop: 68693, Start Num: 11

Candidate Starts for JaNo_107:

(7, 68523), (Start: 11 @68550 has 17 MA's), (15, 68583), (16, 68601), (19, 68622), (20, 68634), (23, 68664),

Gene: Jawnski_59 Start: 41260, Stop: 41388, Start Num: 13

Candidate Starts for Jawnski_59:

(Start: 13 @41260 has 11 MA's), (20, 41323), (21, 41341), (24, 41356),

Gene: JayCookie_109 Start: 68963, Stop: 69106, Start Num: 11

Candidate Starts for JayCookie_109:

(7, 68936), (Start: 11 @68963 has 17 MA's), (15, 68996), (16, 69014), (19, 69035), (20, 69047), (23, 69077),

Gene: Jinkies_78 Start: 45527, Stop: 45655, Start Num: 12
Candidate Starts for Jinkies_78:
(Start: 12 @45527 has 2 MA's),

Gene: KBurrousTX_104 Start: 69569, Stop: 69712, Start Num: 11
Candidate Starts for KBurrousTX_104:
(7, 69542), (Start: 11 @69569 has 17 MA's), (15, 69602), (17, 69626), (19, 69641), (20, 69653), (23, 69683),

Gene: Kabreeze_108 Start: 68636, Stop: 68779, Start Num: 11
Candidate Starts for Kabreeze_108:
(7, 68609), (Start: 11 @68636 has 17 MA's), (15, 68669), (16, 68687), (19, 68708), (20, 68720), (23, 68750),

Gene: King2_59 Start: 41630, Stop: 41758, Start Num: 13
Candidate Starts for King2_59:
(3, 41525), (Start: 13 @41630 has 11 MA's), (20, 41693), (21, 41711), (24, 41726),

Gene: Linus_109 Start: 69084, Stop: 69227, Start Num: 11
Candidate Starts for Linus_109:
(7, 69057), (Start: 11 @69084 has 17 MA's), (15, 69117), (16, 69135), (19, 69156), (20, 69168), (23, 69198),

Gene: Lukepolites_60 Start: 40706, Stop: 40834, Start Num: 14
Candidate Starts for Lukepolites_60:
(14, 40706),

Gene: Lymara_106 Start: 67353, Stop: 67496, Start Num: 11
Candidate Starts for Lymara_106:
(7, 67326), (Start: 11 @67353 has 17 MA's), (15, 67386), (16, 67404), (17, 67410), (19, 67425), (20, 67437), (23, 67467),

Gene: Mordred_108 Start: 68675, Stop: 68818, Start Num: 11
Candidate Starts for Mordred_108:
(7, 68648), (Start: 11 @68675 has 17 MA's), (15, 68708), (16, 68726), (19, 68747), (20, 68759), (23, 68789),

Gene: MoyaNatalis_109 Start: 68409, Stop: 68552, Start Num: 11
Candidate Starts for MoyaNatalis_109:
(7, 68382), (Start: 11 @68409 has 17 MA's), (15, 68442), (16, 68460), (19, 68481), (20, 68493), (23, 68523),

Gene: NathanVaag_60 Start: 41450, Stop: 41578, Start Num: 13
Candidate Starts for NathanVaag_60:
(Start: 13 @41450 has 11 MA's), (20, 41513), (21, 41531), (24, 41546),

Gene: Nostromo_60 Start: 39981, Stop: 40106, Start Num: 13
Candidate Starts for Nostromo_60:
(Start: 13 @39981 has 11 MA's), (22, 40065),

Gene: Piccoletto_61 Start: 41667, Stop: 41795, Start Num: 13
Candidate Starts for Piccoletto_61:
(Start: 13 @41667 has 11 MA's), (20, 41730), (21, 41748), (24, 41763),

Gene: PrincessTrina_109 Start: 68866, Stop: 69009, Start Num: 11

Candidate Starts for PrincessTrina_109:

(7, 68839), (Start: 11 @68866 has 17 MA's), (15, 68899), (16, 68917), (19, 68938), (20, 68950), (23, 68980),

Gene: RosiePosie_109 Start: 68997, Stop: 69140, Start Num: 11

Candidate Starts for RosiePosie_109:

(7, 68970), (Start: 11 @68997 has 17 MA's), (15, 69030), (16, 69048), (19, 69069), (20, 69081), (23, 69111),

Gene: Scavito_109 Start: 68724, Stop: 68867, Start Num: 11

Candidate Starts for Scavito_109:

(7, 68697), (Start: 11 @68724 has 17 MA's), (15, 68757), (16, 68775), (19, 68796), (20, 68808), (23, 68838),

Gene: Sicarius2_66 Start: 41017, Stop: 41142, Start Num: 13

Candidate Starts for Sicarius2_66:

(8, 40981), (Start: 13 @41017 has 11 MA's), (20, 41080),

Gene: Vitus_71 Start: 43697, Stop: 43825, Start Num: 12

Candidate Starts for Vitus_71:

(Start: 12 @43697 has 2 MA's), (18, 43742),

Gene: Wyborn_65 Start: 41716, Stop: 41841, Start Num: 13

Candidate Starts for Wyborn_65:

(8, 41680), (Start: 13 @41716 has 11 MA's), (20, 41779),