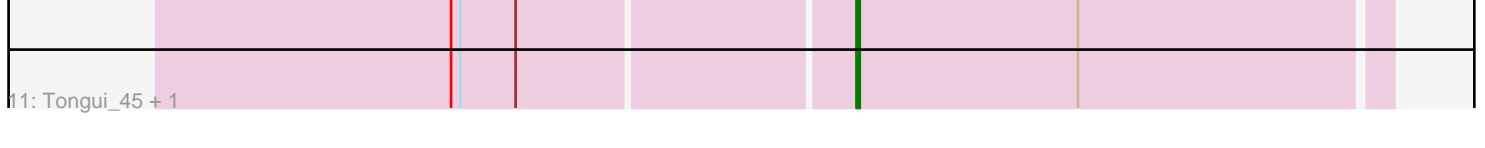
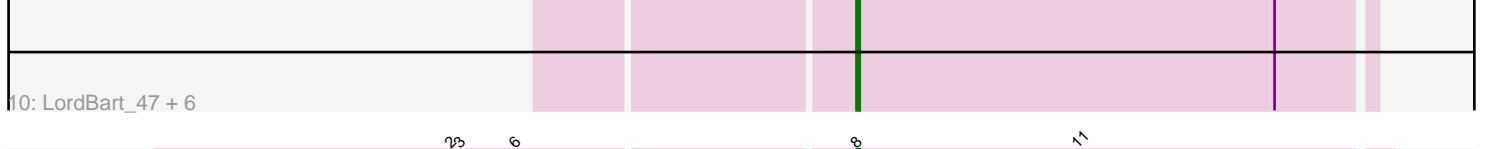
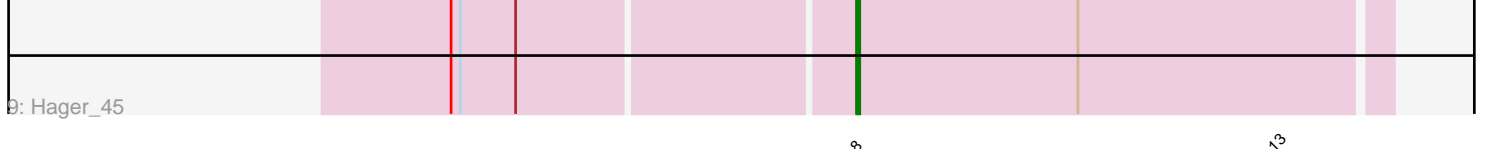
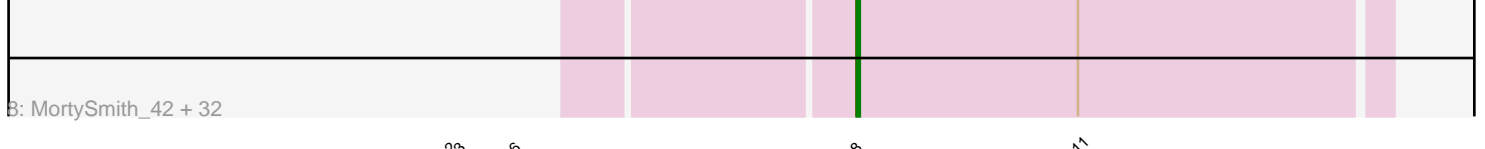
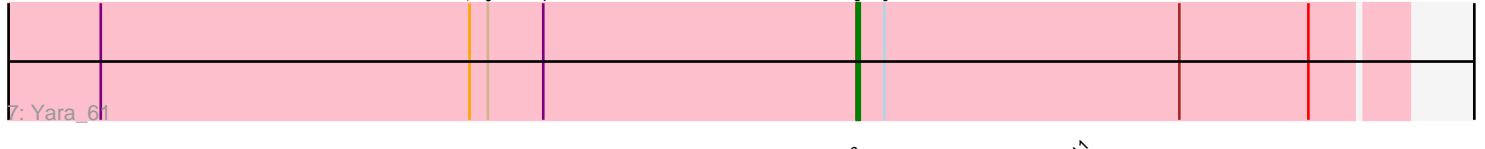
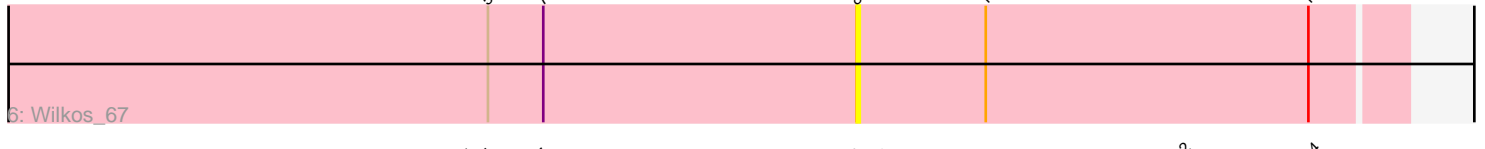
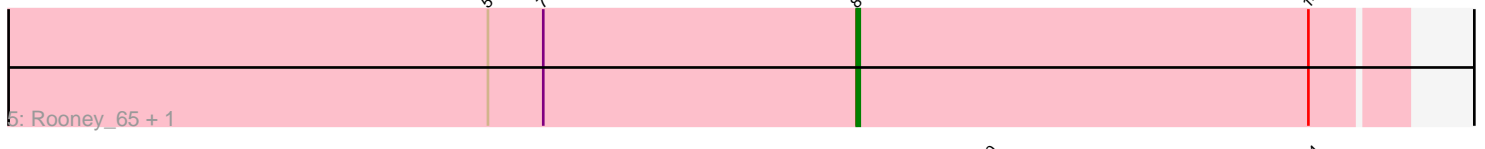
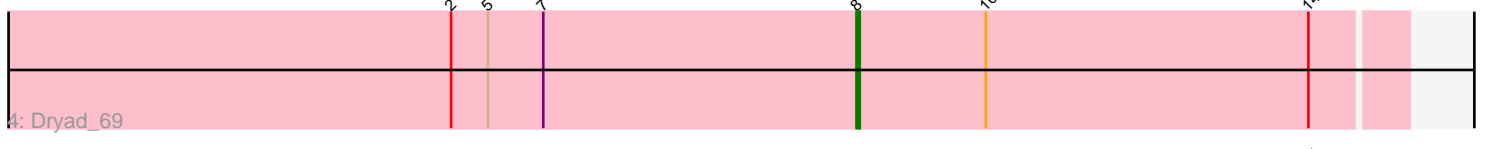
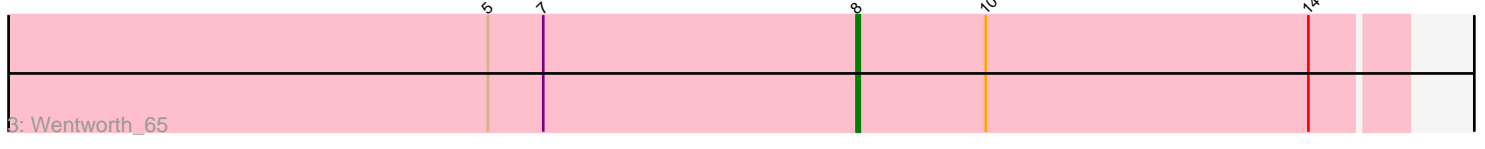
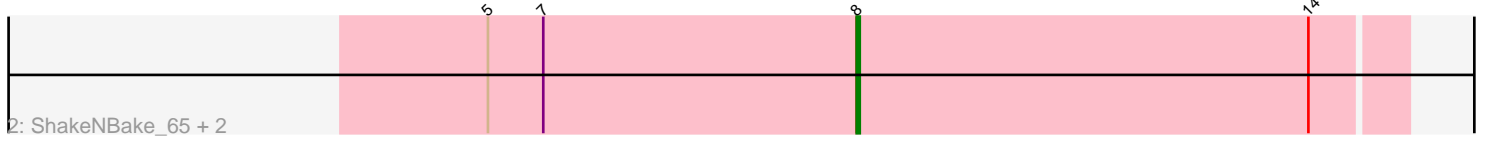
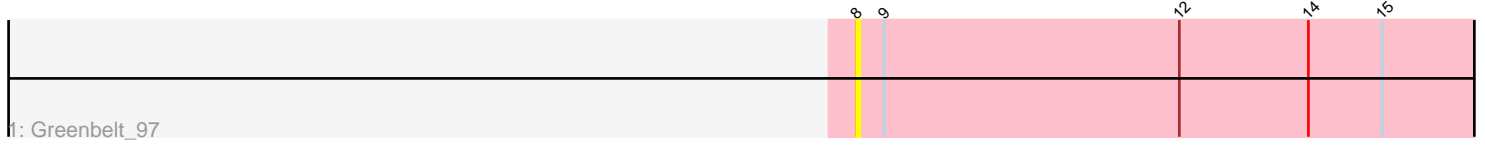


Pham 221489



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 221489 Report

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

Pham number 221489 has 53 members, 10 are drafts.

Phages represented in each track:

- Track 1 : Greenbelt_97
- Track 2 : ShakeNBake_65, PHTowN_65, Lizz_65
- Track 3 : Wentworth_65
- Track 4 : Dryad_69
- Track 5 : Rooney_65, Gibson_65
- Track 6 : Wilkos_67
- Track 7 : Yara_61
- Track 8 : MortySmith_42, Karate_43, Pharpay_44, Krampus_44, Aesir_43, Annapurna_45, Anakin_44, Chivey_44, Potty_44, CoolCookie_44, DannyDe_44, JDawG_43, Crestdrop_44, Rachella_44, Poultruss_43, FreddieHg_44, Erudite_43, Haunter_44, Dauntless_43, Neptune_44, NarutoRun_44, JingleBells_44, PhunaPhoke_44, Tedro_44, Cybele_44, Hiddenleaf_44, OverHedge_44, Snakehole_44, Kate_45, Artiphact_44, AnnaSerena_44, SilentWarrior_44, Gilda_44
- Track 9 : Hager_45
- Track 10 : LordBart_47, Bramble_48, TinyMiny_47, RikSengupta_47, Sparcetus_47, Ajin_47, Kors_48
- Track 11 : Tongui_45, Rie18_44

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

The start number called the most often in the published annotations is 8, it was called in 43 of the 43 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aesir_43, Ajin_47, Anakin_44, AnnaSerena_44, Annapurna_45, Artiphact_44, Bramble_48, Chivey_44, CoolCookie_44, Crestdrop_44, Cybele_44, DannyDe_44, Dauntless_43, Dryad_69, Erudite_43, FreddieHg_44, Gibson_65, Gilda_44, Greenbelt_97, Hager_45, Haunter_44, Hiddenleaf_44, JDawG_43, JingleBells_44, Karate_43, Kate_45, Kors_48, Krampus_44, Lizz_65, LordBart_47, MortySmith_42, NarutoRun_44, Neptune_44, OverHedge_44, PHTowN_65, Pharpay_44, PhunaPhoke_44, Potty_44, Poultruss_43, Rachella_44, Rie18_44, RikSengupta_47, Rooney_65, ShakeNBake_65, SilentWarrior_44, Snakehole_44, Sparcetus_47, Tedro_44, TinyMiny_47, Tongui_45, Wentworth_65, Wilkos_67, Yara_61,

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

-

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

-

Summary by start number:

Start 8:

- Found in 53 of 53 (100.0%) of genes in pham
- Manual Annotations of this start: 43 of 43
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aesir_43 (EF), Ajin_47 (EF), Anakin_44 (EF), AnnaSerena_44 (EF), Annapurna_45 (EF), Artiphact_44 (EF), Bramble_48 (EF), Chivey_44 (EF), CoolCookie_44 (EF), Crestdrop_44 (EF), Cybele_44 (EF), DannyDe_44 (EF), Dauntless_43 (EF), Dryad_69 (BN), Erudite_43 (EF), FreddieHg_44 (EF), Gibson_65 (BN), Gilda_44 (EF), Greenbelt_97 (BN), Hager_45 (EF), Haunter_44 (EF), Hiddenleaf_44 (EF), JDawG_43 (EF), JingleBells_44 (EF), Karate_43 (EF), Kate_45 (EF), Kors_48 (EF), Krampus_44 (EF), Lizz_65 (BN), LordBart_47 (EF), MortySmith_42 (EF), NarutoRun_44 (EF), Neptune_44 (EF), OverHedge_44 (EF), PHTown_65 (BN), Pharpay_44 (EF), PhunaPhoke_44 (EF), Potty_44 (EF), Poultruss_43 (EF), Rachella_44 (EF), Rie18_44 (EF), RikSengupta_47 (EF), Rooney_65 (BN), ShakeNBake_65 (BN), SilentWarrior_44 (EF), Snakehole_44 (EF), Sparcetus_47 (EF), Tedro_44 (EF), TinyMiny_47 (EF), Tongui_45 (EF), Wentworth_65 (BN), Wilkos_67 (BN), Yara_61 (BN),

Summary by clusters:

There are 2 clusters represented in this pham: BN, EF,

Info for manual annotations of cluster BN:

- Start number 8 was manually annotated 8 times for cluster BN.

Info for manual annotations of cluster EF:

- Start number 8 was manually annotated 35 times for cluster EF.

Gene Information:

Gene: Aesir_43 Start: 29621, Stop: 29791, Start Num: 8

Candidate Starts for Aesir_43:

(Start: 8 @29621 has 43 MA's), (11, 29693),

Gene: Ajin_47 Start: 30803, Stop: 30967, Start Num: 8

Candidate Starts for Ajin_47:

(Start: 8 @30803 has 43 MA's), (13, 30938),

Gene: Anakin_44 Start: 29974, Stop: 30144, Start Num: 8

Candidate Starts for Anakin_44:

(Start: 8 @29974 has 43 MA's), (11, 30046),

Gene: AnnaSerena_44 Start: 30009, Stop: 30179, Start Num: 8

Candidate Starts for AnnaSerena_44:
(Start: 8 @30009 has 43 MA's), (11, 30081),

Gene: Annapurna_45 Start: 29250, Stop: 29420, Start Num: 8
Candidate Starts for Annapurna_45:
(Start: 8 @29250 has 43 MA's), (11, 29322),

Gene: Artiphact_44 Start: 29998, Stop: 30168, Start Num: 8
Candidate Starts for Artiphact_44:
(Start: 8 @29998 has 43 MA's), (11, 30070),

Gene: Bramble_48 Start: 30852, Stop: 31016, Start Num: 8
Candidate Starts for Bramble_48:
(Start: 8 @30852 has 43 MA's), (13, 30987),

Gene: Chivey_44 Start: 29199, Stop: 29369, Start Num: 8
Candidate Starts for Chivey_44:
(Start: 8 @29199 has 43 MA's), (11, 29271),

Gene: CoolCookie_44 Start: 30004, Stop: 30174, Start Num: 8
Candidate Starts for CoolCookie_44:
(Start: 8 @30004 has 43 MA's), (11, 30076),

Gene: Crestdrop_44 Start: 29230, Stop: 29400, Start Num: 8
Candidate Starts for Crestdrop_44:
(Start: 8 @29230 has 43 MA's), (11, 29302),

Gene: Cybele_44 Start: 29974, Stop: 30144, Start Num: 8
Candidate Starts for Cybele_44:
(Start: 8 @29974 has 43 MA's), (11, 30046),

Gene: DannyDe_44 Start: 29205, Stop: 29375, Start Num: 8
Candidate Starts for DannyDe_44:
(Start: 8 @29205 has 43 MA's), (11, 29277),

Gene: Dauntless_43 Start: 29557, Stop: 29727, Start Num: 8
Candidate Starts for Dauntless_43:
(Start: 8 @29557 has 43 MA's), (11, 29629),

Gene: Dryad_69 Start: 47074, Stop: 46898, Start Num: 8
Candidate Starts for Dryad_69:
(2, 47206), (5, 47194), (7, 47176), (Start: 8 @47074 has 43 MA's), (10, 47032), (14, 46927),

Gene: Erudite_43 Start: 29557, Stop: 29727, Start Num: 8
Candidate Starts for Erudite_43:
(Start: 8 @29557 has 43 MA's), (11, 29629),

Gene: FreddieHg_44 Start: 29215, Stop: 29385, Start Num: 8
Candidate Starts for FreddieHg_44:
(Start: 8 @29215 has 43 MA's), (11, 29287),

Gene: Gibson_65 Start: 46343, Stop: 46167, Start Num: 8
Candidate Starts for Gibson_65:

(5, 46463), (7, 46445), (Start: 8 @46343 has 43 MA's), (14, 46196),

Gene: Gilda_44 Start: 29998, Stop: 30168, Start Num: 8

Candidate Starts for Gilda_44:

(Start: 8 @29998 has 43 MA's), (11, 30070),

Gene: Greenbelt_97 Start: 42458, Stop: 42255, Start Num: 8

Candidate Starts for Greenbelt_97:

(Start: 8 @42458 has 43 MA's), (9, 42449), (12, 42353), (14, 42311), (15, 42287),

Gene: Hager_45 Start: 29423, Stop: 29593, Start Num: 8

Candidate Starts for Hager_45:

(2, 29297), (3, 29300), (6, 29318), (Start: 8 @29423 has 43 MA's), (11, 29495),

Gene: Haunter_44 Start: 29381, Stop: 29551, Start Num: 8

Candidate Starts for Haunter_44:

(Start: 8 @29381 has 43 MA's), (11, 29453),

Gene: Hiddenleaf_44 Start: 29199, Stop: 29369, Start Num: 8

Candidate Starts for Hiddenleaf_44:

(Start: 8 @29199 has 43 MA's), (11, 29271),

Gene: JDawG_43 Start: 29616, Stop: 29786, Start Num: 8

Candidate Starts for JDawG_43:

(Start: 8 @29616 has 43 MA's), (11, 29688),

Gene: JingleBells_44 Start: 29350, Stop: 29520, Start Num: 8

Candidate Starts for JingleBells_44:

(Start: 8 @29350 has 43 MA's), (11, 29422),

Gene: Karate_43 Start: 29999, Stop: 30169, Start Num: 8

Candidate Starts for Karate_43:

(Start: 8 @29999 has 43 MA's), (11, 30071),

Gene: Kate_45 Start: 30006, Stop: 30176, Start Num: 8

Candidate Starts for Kate_45:

(Start: 8 @30006 has 43 MA's), (11, 30078),

Gene: Kors_48 Start: 30880, Stop: 31044, Start Num: 8

Candidate Starts for Kors_48:

(Start: 8 @30880 has 43 MA's), (13, 31015),

Gene: Krampus_44 Start: 30006, Stop: 30176, Start Num: 8

Candidate Starts for Krampus_44:

(Start: 8 @30006 has 43 MA's), (11, 30078),

Gene: Lizz_65 Start: 46166, Stop: 45990, Start Num: 8

Candidate Starts for Lizz_65:

(5, 46286), (7, 46268), (Start: 8 @46166 has 43 MA's), (14, 46019),

Gene: LordBart_47 Start: 30789, Stop: 30953, Start Num: 8

Candidate Starts for LordBart_47:

(Start: 8 @30789 has 43 MA's), (13, 30924),

Gene: MortySmith_42 Start: 29034, Stop: 29204, Start Num: 8
Candidate Starts for MortySmith_42:
(Start: 8 @29034 has 43 MA's), (11, 29106),

Gene: NarutoRun_44 Start: 29974, Stop: 30144, Start Num: 8
Candidate Starts for NarutoRun_44:
(Start: 8 @29974 has 43 MA's), (11, 30046),

Gene: Neptune_44 Start: 29974, Stop: 30144, Start Num: 8
Candidate Starts for Neptune_44:
(Start: 8 @29974 has 43 MA's), (11, 30046),

Gene: OverHedge_44 Start: 29964, Stop: 30134, Start Num: 8
Candidate Starts for OverHedge_44:
(Start: 8 @29964 has 43 MA's), (11, 30036),

Gene: PHTowN_65 Start: 46164, Stop: 45988, Start Num: 8
Candidate Starts for PHTowN_65:
(5, 46284), (7, 46266), (Start: 8 @46164 has 43 MA's), (14, 46017),

Gene: Pharpay_44 Start: 30019, Stop: 30189, Start Num: 8
Candidate Starts for Pharpay_44:
(Start: 8 @30019 has 43 MA's), (11, 30091),

Gene: PhunaPhoke_44 Start: 29992, Stop: 30162, Start Num: 8
Candidate Starts for PhunaPhoke_44:
(Start: 8 @29992 has 43 MA's), (11, 30064),

Gene: Potty_44 Start: 29997, Stop: 30167, Start Num: 8
Candidate Starts for Potty_44:
(Start: 8 @29997 has 43 MA's), (11, 30069),

Gene: Poultruss_43 Start: 30312, Stop: 30482, Start Num: 8
Candidate Starts for Poultruss_43:
(Start: 8 @30312 has 43 MA's), (11, 30384),

Gene: Rachella_44 Start: 30000, Stop: 30170, Start Num: 8
Candidate Starts for Rachella_44:
(Start: 8 @30000 has 43 MA's), (11, 30072),

Gene: Rie18_44 Start: 29497, Stop: 29667, Start Num: 8
Candidate Starts for Rie18_44:
(2, 29371), (3, 29374), (6, 29392), (Start: 8 @29497 has 43 MA's), (11, 29569),

Gene: RikSengupta_47 Start: 30917, Stop: 31081, Start Num: 8
Candidate Starts for RikSengupta_47:
(Start: 8 @30917 has 43 MA's), (13, 31052),

Gene: Rooney_65 Start: 46319, Stop: 46143, Start Num: 8
Candidate Starts for Rooney_65:
(5, 46439), (7, 46421), (Start: 8 @46319 has 43 MA's), (14, 46172),

Gene: ShakeNBake_65 Start: 46191, Stop: 46015, Start Num: 8
Candidate Starts for ShakeNBake_65:
(5, 46311), (7, 46293), (Start: 8 @46191 has 43 MA's), (14, 46044),

Gene: SilentWarrior_44 Start: 29212, Stop: 29382, Start Num: 8
Candidate Starts for SilentWarrior_44:
(Start: 8 @29212 has 43 MA's), (11, 29284),

Gene: Snakehole_44 Start: 29177, Stop: 29347, Start Num: 8
Candidate Starts for Snakehole_44:
(Start: 8 @29177 has 43 MA's), (11, 29249),

Gene: Sparcetus_47 Start: 30794, Stop: 30958, Start Num: 8
Candidate Starts for Sparcetus_47:
(Start: 8 @30794 has 43 MA's), (13, 30929),

Gene: Tedro_44 Start: 29431, Stop: 29601, Start Num: 8
Candidate Starts for Tedro_44:
(Start: 8 @29431 has 43 MA's), (11, 29503),

Gene: TinyMiny_47 Start: 30815, Stop: 30979, Start Num: 8
Candidate Starts for TinyMiny_47:
(Start: 8 @30815 has 43 MA's), (13, 30950),

Gene: Tongui_45 Start: 29551, Stop: 29721, Start Num: 8
Candidate Starts for Tongui_45:
(2, 29425), (3, 29428), (6, 29446), (Start: 8 @29551 has 43 MA's), (11, 29623),

Gene: Wentworth_65 Start: 46293, Stop: 46117, Start Num: 8
Candidate Starts for Wentworth_65:
(5, 46413), (7, 46395), (Start: 8 @46293 has 43 MA's), (10, 46251), (14, 46146),

Gene: Wilkos_67 Start: 46448, Stop: 46272, Start Num: 8
Candidate Starts for Wilkos_67:
(5, 46568), (7, 46550), (Start: 8 @46448 has 43 MA's), (10, 46406), (14, 46301),

Gene: Yara_61 Start: 45153, Stop: 44977, Start Num: 8
Candidate Starts for Yara_61:
(1, 45399), (4, 45279), (5, 45273), (7, 45255), (Start: 8 @45153 has 43 MA's), (9, 45144), (12, 45048),
(14, 45006),