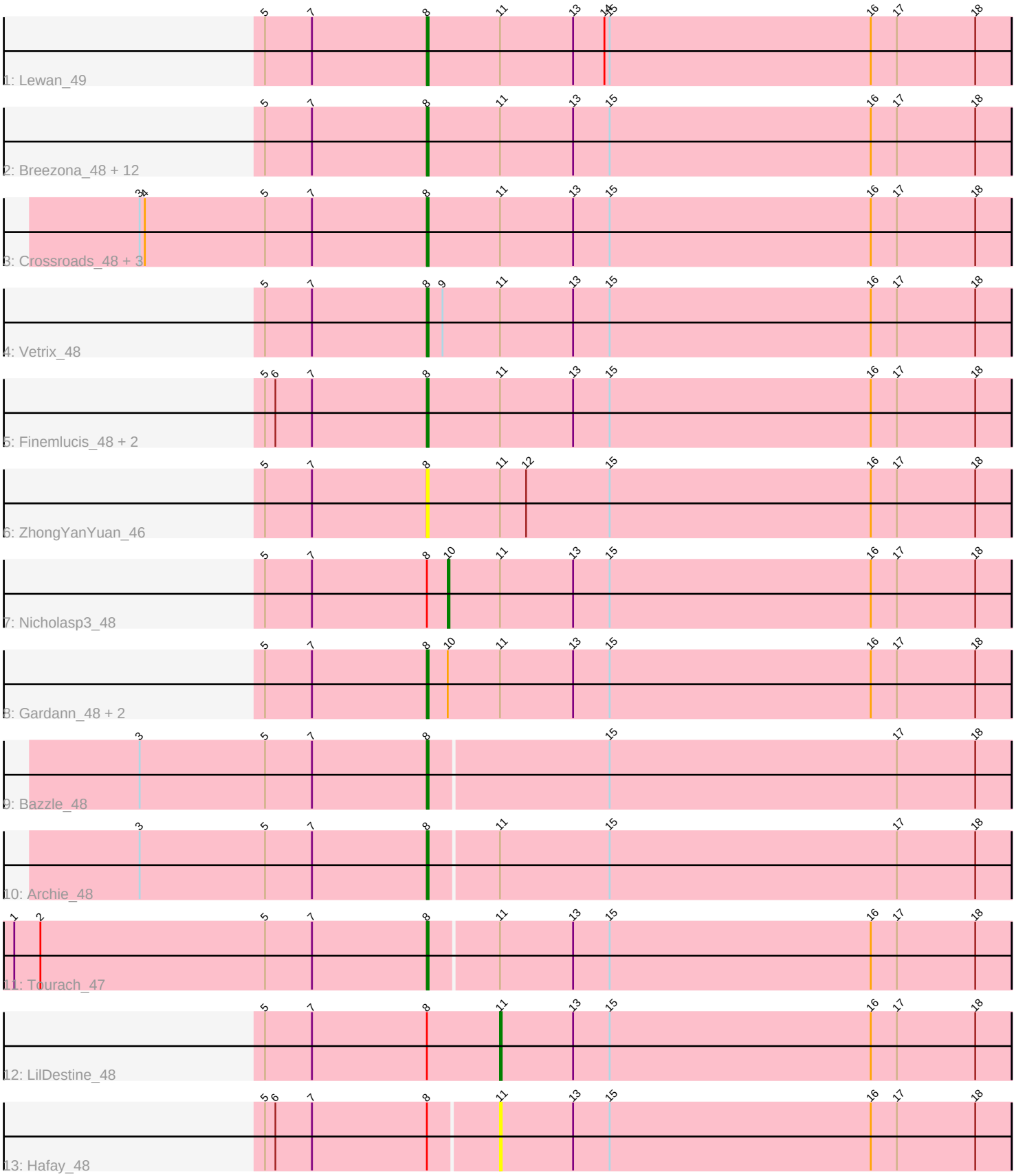
Pham 2792


1: Lewan_49
2: Breezona_48 + 12
3: Crossroads_48 + 3
4: Vetrix_48
5: Finemlucis_48 + 2
6: ZhongYanYuan_46
7: Nicholasp3_48
8: Gardann_48 + 2
9: Bazzle_48
10: Archie_48
11: Tourach_47
12: LilDestine_48
13: Hafay_48

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 2792 Report

This analysis was run 04/28/24 on database version 559.

Pham number 2792 has 32 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Lewan_49
• Track 2 : Breezona_48, BobsGarage_48, Claus_48, BigCheese_48, Faith1_48, Miley16_48, Gabriela_48, Netyap_48, Rumpelstiltskin_48, Itos_47, Baoshan_46, DrSeegs_48, Winky_48
• Track 3 : Crossroads_48, Loadrie_47, GuuelaD_47, Zakai_48
• Track 4 : Vetrix_48
• Track 5 : Finemlucis_48, MkaliMitinis3_48, Wigglewiggle_48
• Track 6 : ZhongYanYuan_46
• Track 7 : Nicholasp3_48
• Track 8 : Gardann_48, Wilder_48, Kahlid_48
• Track 9 : Bazzle_48
• Track 10 : Archie_48
• Track 11 : Tourach_47
• Track 12 : LilDestine_48
• Track 13 : Hafay_48

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 26 of the 28 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Archie_48, Baoshan_46, Bazzle_48, BigCheese_48, BobsGarage_48, Breezona_48, Claus_48, Crossroads_48, DrSeegs_48, Faith1_48, Finemlucis_48, Gabriela_48, Gardann_48, GuuelaD_47, Itos_47, Kahlid_48, Lewan_49, Loadrie_47, Miley16_48, MkaliMitinis3_48, Netyap_48, Rumpelstiltskin_48, Tourach_47, Vetrix_48, Wigglewiggle_48, Wilder_48, Winky_48, Zakai_48, ZhongYanYuan_46,

Genes that have the "Most Annotated" start but do not call it:
• Hafay_48, LilDestine_48, Nicholasp3_48,

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

Summary by start number:

Start 8:
• Found in 32 of 32 (100.0%) of genes in pham
• Manual Annotations of this start: 26 of 28
• Called 90.6% of time when present
• Phage (with cluster) where this start called: Archie_48 (L2), Baoshan_46 (L2), Bazzle_48 (L2), BigCheese_48 (L2), BobsGarage_48 (L2), Breezona_48 (L2), Claus_48 (L2), Crossroads_48 (L2), DrSeegs_48 (L2), Faith1_48 (L2), Finemlucis_48 (L2), Gabriela_48 (L2), Gardann_48 (L2), GuuelaD_47 (L2), Itos_47 (L2), Kahlid_48 (L2), Lewan_49 (L2), Loadrie_47 (L2), Miley16_48 (L2), MkaliMitinis3_48 (L2), Netyap_48 (L2), Rumpelstiltskin_48 (L2), Tourach_47 (L2), Vetrix_48 (L2), Wigglewiggle_48 (L2), Wilder_48 (L2), Winky_48 (L2), Zakai_48 (L2), ZhongYanYuan_46 (L2),

Start 10:
• Found in 4 of 32 (12.5%) of genes in pham
• Manual Annotations of this start: 1 of 28
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Nicholasp3_48 (L2),

Start 11:
• Found in 31 of 32 (96.9%) of genes in pham
• Manual Annotations of this start: 1 of 28
• Called 6.5% of time when present
• Phage (with cluster) where this start called: Hafay_48 (L2), LilDestine_48 (L2),

Summary by clusters:

There is one cluster represented in this pham: L2

Info for manual annotations of cluster L2:
•Start number 8 was manually annotated 26 times for cluster L2.
•Start number 10 was manually annotated 1 time for cluster L2.
•Start number 11 was manually annotated 1 time for cluster L2.

Gene Information:

Gene: Archie_48 Start: 37787, Stop: 38119, Start Num: 8
Candidate Starts for Archie_48:
(3, 37622), (5, 37694), (7, 37721), (Start: 8 @37787 has 26 MA's), (Start: 11 @37826 has 1 MA's), (15, 37889), (17, 38054), (18, 38099),

Gene: Baoshan_46 Start: 37514, Stop: 37846, Start Num: 8
Candidate Starts for Baoshan_46:
(5, 37421), (7, 37448), (Start: 8 @37514 has 26 MA's), (Start: 11 @37553 has 1 MA's), (13, 37595), (15, 37616), (16, 37766), (17, 37781), (18, 37826),

Gene: Bazzle_48 Start: 37857, Stop: 38189, Start Num: 8
Candidate Starts for Bazzle_48:

(3, 37692), (5, 37764), (7, 37791), (Start: 8 @37857 has 26 MA's), (15, 37959), (17, 38124), (18, 38169),

Gene: BigCheese_48 Start: 37619, Stop: 37954, Start Num: 8
Candidate Starts for BigCheese_48:
(5, 37526), (7, 37553), (Start: 8 @37619 has 26 MA's), (Start: 11 @37661 has 1 MA's), (13, 37703), (15, 37724), (16, 37874), (17, 37889), (18, 37934),

Gene: BobsGarage_48 Start: 37619, Stop: 37954, Start Num: 8
Candidate Starts for BobsGarage_48:
(5, 37526), (7, 37553), (Start: 8 @37619 has 26 MA's), (Start: 11 @37661 has 1 MA's), (13, 37703), (15, 37724), (16, 37874), (17, 37889), (18, 37934),

Gene: Breezona_48 Start: 37619, Stop: 37954, Start Num: 8
Candidate Starts for Breezona_48:
(5, 37526), (7, 37553), (Start: 8 @37619 has 26 MA's), (Start: 11 @37661 has 1 MA's), (13, 37703), (15, 37724), (16, 37874), (17, 37889), (18, 37934),

Gene: Claus_48 Start: 37633, Stop: 37965, Start Num: 8
Candidate Starts for Claus_48:
(5, 37540), (7, 37567), (Start: 8 @37633 has 26 MA's), (Start: 11 @37672 has 1 MA's), (13, 37714), (15, 37735), (16, 37885), (17, 37900), (18, 37945),

Gene: Crossroads_48 Start: 37621, Stop: 37956, Start Num: 8
Candidate Starts for Crossroads_48:
(3, 37456), (4, 37459), (5, 37528), (7, 37555), (Start: 8 @37621 has 26 MA's), (Start: 11 @37663 has 1 MA's), (13, 37705), (15, 37726), (16, 37876), (17, 37891), (18, 37936),

Gene: DrSeegs_48 Start: 37619, Stop: 37954, Start Num: 8
Candidate Starts for DrSeegs_48:
(5, 37526), (7, 37553), (Start: 8 @37619 has 26 MA's), (Start: 11 @37661 has 1 MA's), (13, 37703), (15, 37724), (16, 37874), (17, 37889), (18, 37934),

Gene: Faith1_48 Start: 37619, Stop: 37954, Start Num: 8
Candidate Starts for Faith1_48:
(5, 37526), (7, 37553), (Start: 8 @37619 has 26 MA's), (Start: 11 @37661 has 1 MA's), (13, 37703), (15, 37724), (16, 37874), (17, 37889), (18, 37934),

Gene: Finemlucis_48 Start: 37905, Stop: 38240, Start Num: 8
Candidate Starts for Finemlucis_48:
(5, 37812), (6, 37818), (7, 37839), (Start: 8 @37905 has 26 MA's), (Start: 11 @37947 has 1 MA's), (13, 37989), (15, 38010), (16, 38160), (17, 38175), (18, 38220),

Gene: Gabriela_48 Start: 37881, Stop: 38216, Start Num: 8
Candidate Starts for Gabriela_48:
(5, 37788), (7, 37815), (Start: 8 @37881 has 26 MA's), (Start: 11 @37923 has 1 MA's), (13, 37965), (15, 37986), (16, 38136), (17, 38151), (18, 38196),

Gene: Gardann_48 Start: 37620, Stop: 37955, Start Num: 8
Candidate Starts for Gardann_48:
(5, 37527), (7, 37554), (Start: 8 @37620 has 26 MA's), (Start: 10 @37632 has 1 MA's), (Start: 11 @37662 has 1 MA's), (13, 37704), (15, 37725), (16, 37875), (17, 37890), (18, 37935),

Gene: GuuelaD_47 Start: 37658, Stop: 37993, Start Num: 8
Candidate Starts for GuuelaD_47:
(3, 37493), (4, 37496), (5, 37565), (7, 37592), (Start: 8 @37658 has 26 MA's), (Start: 11 @37700 has 1 MA's), (13, 37742), (15, 37763), (16, 37913), (17, 37928), (18, 37973),

Gene: Hafay_48 Start: 37723, Stop: 38016, Start Num: 11
Candidate Starts for Hafay_48:
(5, 37591), (6, 37597), (7, 37618), (Start: 8 @37684 has 26 MA's), (Start: 11 @37723 has 1 MA's), (13, 37765), (15, 37786), (16, 37936), (17, 37951), (18, 37996),

Gene: Itos_47 Start: 36525, Stop: 36860, Start Num: 8
Candidate Starts for Itos_47:
(5, 36432), (7, 36459), (Start: 8 @36525 has 26 MA's), (Start: 11 @36567 has 1 MA's), (13, 36609), (15, 36630), (16, 36780), (17, 36795), (18, 36840),

Gene: Kahlid_48 Start: 37625, Stop: 37960, Start Num: 8
Candidate Starts for Kahlid_48:
(5, 37532), (7, 37559), (Start: 8 @37625 has 26 MA's), (Start: 10 @37637 has 1 MA's), (Start: 11 @37667 has 1 MA's), (13, 37709), (15, 37730), (16, 37880), (17, 37895), (18, 37940),

Gene: Lewan_49 Start: 37643, Stop: 37978, Start Num: 8
Candidate Starts for Lewan_49:
(5, 37550), (7, 37577), (Start: 8 @37643 has 26 MA's), (Start: 11 @37685 has 1 MA's), (13, 37727), (14, 37745), (15, 37748), (16, 37898), (17, 37913), (18, 37958),

Gene: LilDestine_48 Start: 37659, Stop: 37952, Start Num: 11
Candidate Starts for LilDestine_48:
(5, 37524), (7, 37551), (Start: 8 @37617 has 26 MA's), (Start: 11 @37659 has 1 MA's), (13, 37701), (15, 37722), (16, 37872), (17, 37887), (18, 37932),

Gene: Loadrie_47 Start: 37682, Stop: 38014, Start Num: 8
Candidate Starts for Loadrie_47:
(3, 37517), (4, 37520), (5, 37589), (7, 37616), (Start: 8 @37682 has 26 MA's), (Start: 11 @37721 has 1 MA's), (13, 37763), (15, 37784), (16, 37934), (17, 37949), (18, 37994),

Gene: Miley16_48 Start: 37619, Stop: 37954, Start Num: 8
Candidate Starts for Miley16_48:
(5, 37526), (7, 37553), (Start: 8 @37619 has 26 MA's), (Start: 11 @37661 has 1 MA's), (13, 37703), (15, 37724), (16, 37874), (17, 37889), (18, 37934),

Gene: MkaliMitinis3_48 Start: 37652, Stop: 37984, Start Num: 8
Candidate Starts for MkaliMitinis3_48:
(5, 37559), (6, 37565), (7, 37586), (Start: 8 @37652 has 26 MA's), (Start: 11 @37691 has 1 MA's), (13, 37733), (15, 37754), (16, 37904), (17, 37919), (18, 37964),

Gene: Netyap_48 Start: 37619, Stop: 37954, Start Num: 8
Candidate Starts for Netyap_48:
(5, 37526), (7, 37553), (Start: 8 @37619 has 26 MA's), (Start: 11 @37661 has 1 MA's), (13, 37703), (15, 37724), (16, 37874), (17, 37889), (18, 37934),

Gene: Nicholasp3_48 Start: 37632, Stop: 37955, Start Num: 10
Candidate Starts for Nicholasp3_48:

(5, 37527), (7, 37554), (Start: 8 @37620 has 26 MA's), (Start: 10 @37632 has 1 MA's), (Start: 11 @37662 has 1 MA's), (13, 37704), (15, 37725), (16, 37875), (17, 37890), (18, 37935),

Gene: Rumpelstiltskin_48 Start: 37886, Stop: 38221, Start Num: 8
Candidate Starts for Rumpelstiltskin_48:
(5, 37793), (7, 37820), (Start: 8 @37886 has 26 MA's), (Start: 11 @37928 has 1 MA's), (13, 37970), (15, 37991), (16, 38141), (17, 38156), (18, 38201),

Gene: Tourach_47 Start: 37643, Stop: 37975, Start Num: 8
Candidate Starts for Tourach_47:
(1, 37406), (2, 37421), (5, 37550), (7, 37577), (Start: 8 @37643 has 26 MA's), (Start: 11 @37682 has 1 MA's), (13, 37724), (15, 37745), (16, 37895), (17, 37910), (18, 37955),

Gene: Vetrix_48 Start: 37625, Stop: 37960, Start Num: 8
Candidate Starts for Vetrix_48:
(5, 37532), (7, 37559), (Start: 8 @37625 has 26 MA's), (9, 37634), (Start: 11 @37667 has 1 MA's), (13, 37709), (15, 37730), (16, 37880), (17, 37895), (18, 37940),

Gene: Wigglewiggle_48 Start: 37683, Stop: 38015, Start Num: 8
Candidate Starts for Wigglewiggle_48:
(5, 37590), (6, 37596), (7, 37617), (Start: 8 @37683 has 26 MA's), (Start: 11 @37722 has 1 MA's), (13, 37764), (15, 37785), (16, 37935), (17, 37950), (18, 37995),

Gene: Wilder_48 Start: 37625, Stop: 37960, Start Num: 8
Candidate Starts for Wilder_48:
(5, 37532), (7, 37559), (Start: 8 @37625 has 26 MA's), (Start: 10 @37637 has 1 MA's), (Start: 11 @37667 has 1 MA's), (13, 37709), (15, 37730), (16, 37880), (17, 37895), (18, 37940),

Gene: Winky_48 Start: 37619, Stop: 37954, Start Num: 8
Candidate Starts for Winky_48:
(5, 37526), (7, 37553), (Start: 8 @37619 has 26 MA's), (Start: 11 @37661 has 1 MA's), (13, 37703), (15, 37724), (16, 37874), (17, 37889), (18, 37934),

Gene: Zakai_48 Start: 37877, Stop: 38212, Start Num: 8
Candidate Starts for Zakai_48:
(3, 37712), (4, 37715), (5, 37784), (7, 37811), (Start: 8 @37877 has 26 MA's), (Start: 11 @37919 has 1 MA's), (13, 37961), (15, 37982), (16, 38132), (17, 38147), (18, 38192),

Gene: ZhongYanYuan_46 Start: 37475, Stop: 37810, Start Num: 8
Candidate Starts for ZhongYanYuan_46:
(5, 37382), (7, 37409), (Start: 8 @37475 has 26 MA's), (Start: 11 @37517 has 1 MA's), (12, 37532), (15, 37580), (16, 37730), (17, 37745), (18, 37790),