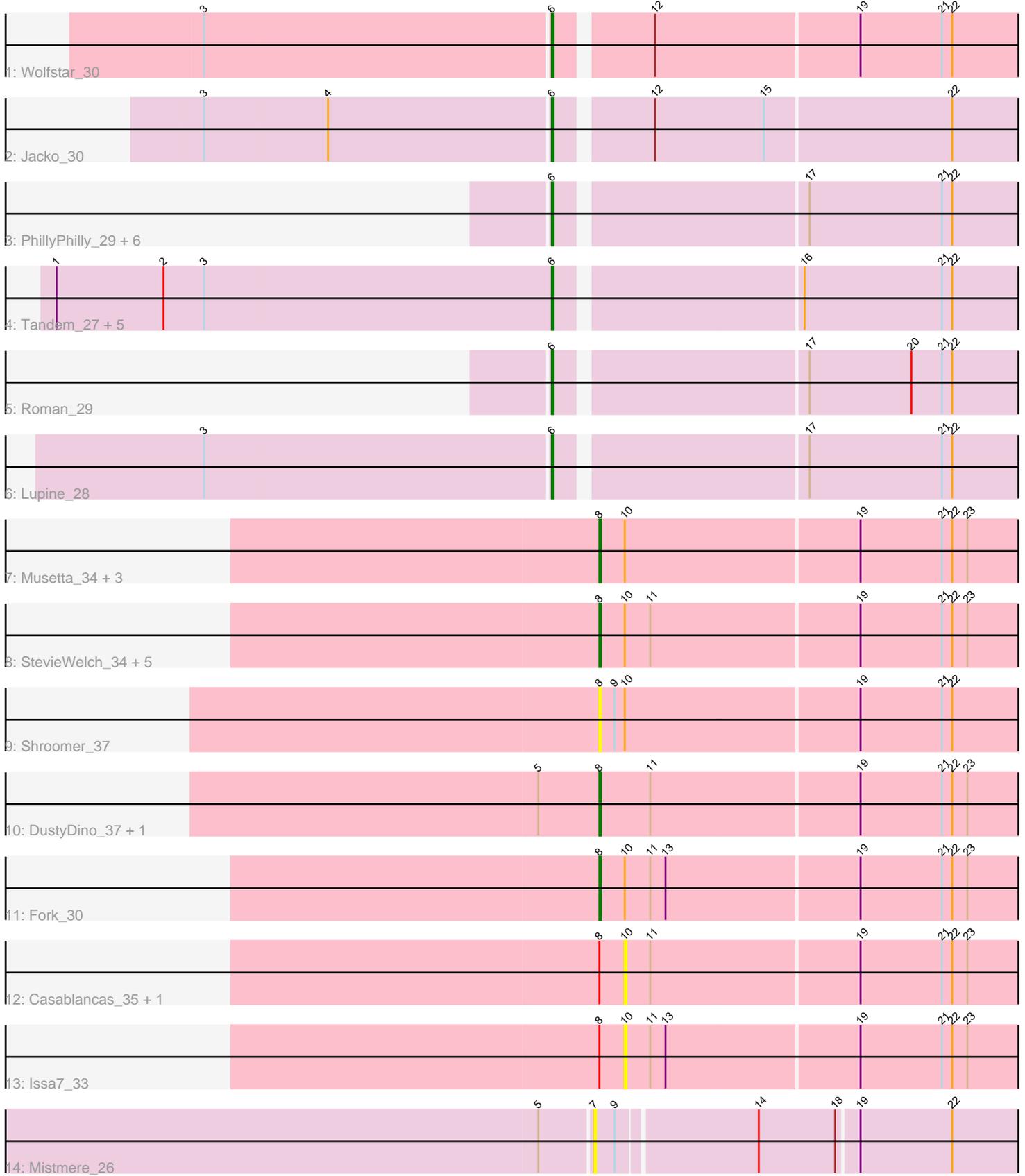# Pham 289576

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 289576 Report

This analysis was run 03/28/26 on database version 641.

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 289576 has 35 members, 9 are drafts.

Phages represented in each track:
• Track 1 : Wolfstar_30
• Track 2 : Jacko_30
• Track 3 : PhillyPhilly_29, Pavlo_28, Solimine_30, Uterion_31, Saradis_30, Hubbs_29, DejaVu_30
• Track 4 : Tandem_27, Platte_27, Alleb_28, Pioneer3_27, OlinDD_27, Hortus1_27
• Track 5 : Roman_29
• Track 6 : Lupine_28
• Track 7 : Musetta_34, Yuma_33, Welcome_35, ASegato_33
• Track 8 : StevieWelch_34, Necrophoxinus_36, Erenyeager_34, SteakFry_33, HollowPurple_35, Lyell_34
• Track 9 : Shroomer_37
• Track 10 : DustyDino_37, RunningBrook_35
• Track 11 : Fork_30
• Track 12 : Casablancas_35, Deschain_34
• Track 13 : Issa7_33
• Track 14 : Mistmere_26

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

Genes that call this "Most Annotated" start:
• Alleb_28, DejaVu_30, Hortus1_27, Hubbs_29, Jacko_30, Lupine_28, OlinDD_27, Pavlo_28, PhillyPhilly_29, Pioneer3_27, Platte_27, Roman_29, Saradis_30, Solimine_30, Tandem_27, Uterion_31, Wolfstar_30,

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

Genes that do not have the "Most Annotated" start:
• ASegato_33, Casablancas_35, Deschain_34, DustyDino_37, Erenyeager_34, Fork_30, HollowPurple_35, Issa7_33, Lyell_34, Mistmere_26, Musetta_34, Necrophoxinus_36, RunningBrook_35, Shroomer_37, SteakFry_33, StevieWelch_34, Welcome_35, Yuma_33,

Summary by start number:

Start 6:
• Found in 17 of 35 (48.6%) of genes in pham
• Manual Annotations of this start: 14 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Alleb_28 (ED1), DejaVu_30 (ED1), Hortus1_27 (ED1), Hubbs_29 (ED1), Jacko_30 (ED1), Lupine_28 (ED1), OlinDD_27 (ED1), Pavlo_28 (ED1), PhillyPhilly_29 (ED1), Pioneer3_27 (ED1), Platte_27 (ED1), Roman_29 (ED1), Saradis_30 (ED1), Solimine_30 (ED1), Tandem_27 (ED1), Uterion_31 (ED1), Wolfstar_30 (ED),

Start 7:
• Found in 1 of 35 (2.9%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Mistmere_26 (ED3),

Start 8:
• Found in 17 of 35 (48.6%) of genes in pham
• Manual Annotations of this start: 12 of 26
• Called 82.4% of time when present
• Phage (with cluster) where this start called: ASegato_33 (ED2), DustyDino_37 (ED2), Erenyeager_34 (ED2), Fork_30 (ED2), HollowPurple_35 (ED2), Lyell_34 (ED2), Musetta_34 (ED2), Necrophoxinus_36 (ED2), RunningBrook_35 (ED2), Shroomer_37 (ED2), SteakFry_33 (ED2), StevieWelch_34 (ED2), Welcome_35 (ED2), Yuma_33 (ED2),

Start 10:
• Found in 15 of 35 (42.9%) of genes in pham
• No Manual Annotations of this start.
• Called 20.0% of time when present
• Phage (with cluster) where this start called: Casablancas_35 (ED2), Deschain_34 (ED2), Issa7_33 (ED2),

Summary by clusters:

There are 4 clusters represented in this pham: ED2, ED, ED1, ED3,

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

Info for manual annotations of cluster ED1:
•Start number 6 was manually annotated 13 times for cluster ED1.

Info for manual annotations of cluster ED2:
•Start number 8 was manually annotated 12 times for cluster ED2.

Gene Information:

Gene: ASegato_33 Start: 9624, Stop: 9875, Start Num: 8
Candidate Starts for ASegato_33:
(Start: 8 @9624 has 12 MA's), (10, 9639), (19, 9774), (21, 9822), (22, 9828), (23, 9837),

Gene: Alleb_28 Start: 8830, Stop: 9090, Start Num: 6
Candidate Starts for Alleb_28:
(1, 8539), (2, 8602), (3, 8626), (Start: 6 @8830 has 14 MA's), (16, 8965), (21, 9046), (22, 9052),

Gene: Casablancas_35 Start: 9722, Stop: 9958, Start Num: 10
Candidate Starts for Casablancas_35:
(Start: 8 @9707 has 12 MA's), (10, 9722), (11, 9737), (19, 9857), (21, 9905), (22, 9911), (23, 9920),

Gene: DejaVu_30 Start: 9028, Stop: 9288, Start Num: 6
Candidate Starts for DejaVu_30:
(Start: 6 @9028 has 14 MA's), (17, 9166), (21, 9244), (22, 9250),

Gene: Deschain_34 Start: 10386, Stop: 10622, Start Num: 10
Candidate Starts for Deschain_34:
(Start: 8 @10371 has 12 MA's), (10, 10386), (11, 10401), (19, 10521), (21, 10569), (22, 10575), (23, 10584),

Gene: DustyDino_37 Start: 10571, Stop: 10822, Start Num: 8
Candidate Starts for DustyDino_37:
(5, 10535), (Start: 8 @10571 has 12 MA's), (11, 10601), (19, 10721), (21, 10769), (22, 10775), (23, 10784),

Gene: Erenyeager_34 Start: 9965, Stop: 10216, Start Num: 8
Candidate Starts for Erenyeager_34:
(Start: 8 @9965 has 12 MA's), (10, 9980), (11, 9995), (19, 10115), (21, 10163), (22, 10169), (23, 10178),

Gene: Fork_30 Start: 9281, Stop: 9532, Start Num: 8
Candidate Starts for Fork_30:
(Start: 8 @9281 has 12 MA's), (10, 9296), (11, 9311), (13, 9320), (19, 9431), (21, 9479), (22, 9485), (23, 9494),

Gene: HollowPurple_35 Start: 9821, Stop: 10072, Start Num: 8
Candidate Starts for HollowPurple_35:
(Start: 8 @9821 has 12 MA's), (10, 9836), (11, 9851), (19, 9971), (21, 10019), (22, 10025), (23, 10034),

Gene: Hortus1_27 Start: 8829, Stop: 9089, Start Num: 6
Candidate Starts for Hortus1_27:
(1, 8538), (2, 8601), (3, 8625), (Start: 6 @8829 has 14 MA's), (16, 8964), (21, 9045), (22, 9051),

Gene: Hubbs_29 Start: 9240, Stop: 9500, Start Num: 6
Candidate Starts for Hubbs_29:
(Start: 6 @9240 has 14 MA's), (17, 9378), (21, 9456), (22, 9462),

Gene: Issa7_33 Start: 9290, Stop: 9526, Start Num: 10
Candidate Starts for Issa7_33:
(Start: 8 @9275 has 12 MA's), (10, 9290), (11, 9305), (13, 9314), (19, 9425), (21, 9473), (22, 9479), (23, 9488),

Gene: Jacko_30 Start: 9333, Stop: 9593, Start Num: 6
Candidate Starts for Jacko_30:
(3, 9132), (4, 9204), (Start: 6 @9333 has 14 MA's), (12, 9384), (15, 9447), (22, 9555),

Gene: Lupine_28 Start: 8912, Stop: 9172, Start Num: 6
Candidate Starts for Lupine_28:
(3, 8711), (Start: 6 @8912 has 14 MA's), (17, 9050), (21, 9128), (22, 9134),

Gene: Lyell_34 Start: 9883, Stop: 10134, Start Num: 8
Candidate Starts for Lyell_34:
(Start: 8 @9883 has 12 MA's), (10, 9898), (11, 9913), (19, 10033), (21, 10081), (22, 10087), (23, 10096),

Gene: Mistmere_26 Start: 7490, Stop: 7738, Start Num: 7
Candidate Starts for Mistmere_26:
(5, 7460), (7, 7490), (9, 7502), (14, 7580), (18, 7625), (19, 7637), (22, 7691),

Gene: Musetta_34 Start: 9992, Stop: 10243, Start Num: 8
Candidate Starts for Musetta_34:
(Start: 8 @9992 has 12 MA's), (10, 10007), (19, 10142), (21, 10190), (22, 10196), (23, 10205),

Gene: Necrophoxinus_36 Start: 10579, Stop: 10830, Start Num: 8
Candidate Starts for Necrophoxinus_36:
(Start: 8 @10579 has 12 MA's), (10, 10594), (11, 10609), (19, 10729), (21, 10777), (22, 10783), (23, 10792),

Gene: OlinDD_27 Start: 8828, Stop: 9088, Start Num: 6
Candidate Starts for OlinDD_27:
(1, 8537), (2, 8600), (3, 8624), (Start: 6 @8828 has 14 MA's), (16, 8963), (21, 9044), (22, 9050),

Gene: Pavlo_28 Start: 9187, Stop: 9447, Start Num: 6
Candidate Starts for Pavlo_28:
(Start: 6 @9187 has 14 MA's), (17, 9325), (21, 9403), (22, 9409),

Gene: PhillyPhilly_29 Start: 9092, Stop: 9352, Start Num: 6
Candidate Starts for PhillyPhilly_29:
(Start: 6 @9092 has 14 MA's), (17, 9230), (21, 9308), (22, 9314),

Gene: Pioneer3_27 Start: 8827, Stop: 9087, Start Num: 6
Candidate Starts for Pioneer3_27:
(1, 8536), (2, 8599), (3, 8623), (Start: 6 @8827 has 14 MA's), (16, 8962), (21, 9043), (22, 9049),

Gene: Platte_27 Start: 8597, Stop: 8857, Start Num: 6
Candidate Starts for Platte_27:
(1, 8306), (2, 8369), (3, 8393), (Start: 6 @8597 has 14 MA's), (16, 8732), (21, 8813), (22, 8819),

Gene: Roman_29 Start: 9087, Stop: 9347, Start Num: 6

Candidate Starts for Roman_29:
(Start: 6 @9087 has 14 MA's), (17, 9225), (20, 9285), (21, 9303), (22, 9309),

Gene: RunningBrook_35 Start: 10571, Stop: 10822, Start Num: 8
Candidate Starts for RunningBrook_35:
(5, 10535), (Start: 8 @10571 has 12 MA's), (11, 10601), (19, 10721), (21, 10769), (22, 10775), (23, 10784),

Gene: Saradis_30 Start: 9150, Stop: 9410, Start Num: 6
Candidate Starts for Saradis_30:
(Start: 6 @9150 has 14 MA's), (17, 9288), (21, 9366), (22, 9372),

Gene: Shroomer_37 Start: 10099, Stop: 10350, Start Num: 8
Candidate Starts for Shroomer_37:
(Start: 8 @10099 has 12 MA's), (9, 10108), (10, 10114), (19, 10249), (21, 10297), (22, 10303),

Gene: Solimine_30 Start: 9565, Stop: 9825, Start Num: 6
Candidate Starts for Solimine_30:
(Start: 6 @9565 has 14 MA's), (17, 9703), (21, 9781), (22, 9787),

Gene: SteakFry_33 Start: 9821, Stop: 10072, Start Num: 8
Candidate Starts for SteakFry_33:
(Start: 8 @9821 has 12 MA's), (10, 9836), (11, 9851), (19, 9971), (21, 10019), (22, 10025), (23, 10034),

Gene: StevieWelch_34 Start: 9971, Stop: 10222, Start Num: 8
Candidate Starts for StevieWelch_34:
(Start: 8 @9971 has 12 MA's), (10, 9986), (11, 10001), (19, 10121), (21, 10169), (22, 10175), (23, 10184),

Gene: Tandem_27 Start: 8766, Stop: 9026, Start Num: 6
Candidate Starts for Tandem_27:
(1, 8475), (2, 8538), (3, 8562), (Start: 6 @8766 has 14 MA's), (16, 8901), (21, 8982), (22, 8988),

Gene: Uterion_31 Start: 9657, Stop: 9917, Start Num: 6
Candidate Starts for Uterion_31:
(Start: 6 @9657 has 14 MA's), (17, 9795), (21, 9873), (22, 9879),

Gene: Welcome_35 Start: 9988, Stop: 10239, Start Num: 8
Candidate Starts for Welcome_35:
(Start: 8 @9988 has 12 MA's), (10, 10003), (19, 10138), (21, 10186), (22, 10192), (23, 10201),

Gene: Wolfstar_30 Start: 9600, Stop: 9860, Start Num: 6
Candidate Starts for Wolfstar_30:
(3, 9399), (Start: 6 @9600 has 14 MA's), (12, 9651), (19, 9768), (21, 9816), (22, 9822),

Gene: Yuma_33 Start: 9891, Stop: 10142, Start Num: 8
Candidate Starts for Yuma_33:
(Start: 8 @9891 has 12 MA's), (10, 9906), (19, 10041), (21, 10089), (22, 10095), (23, 10104),