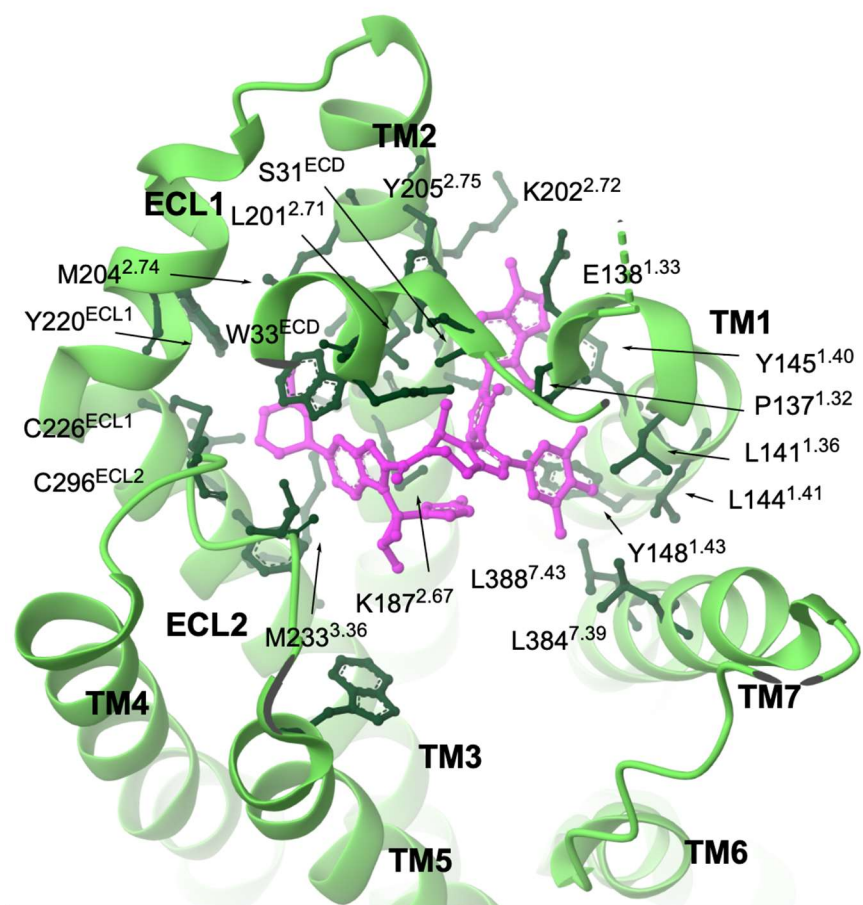
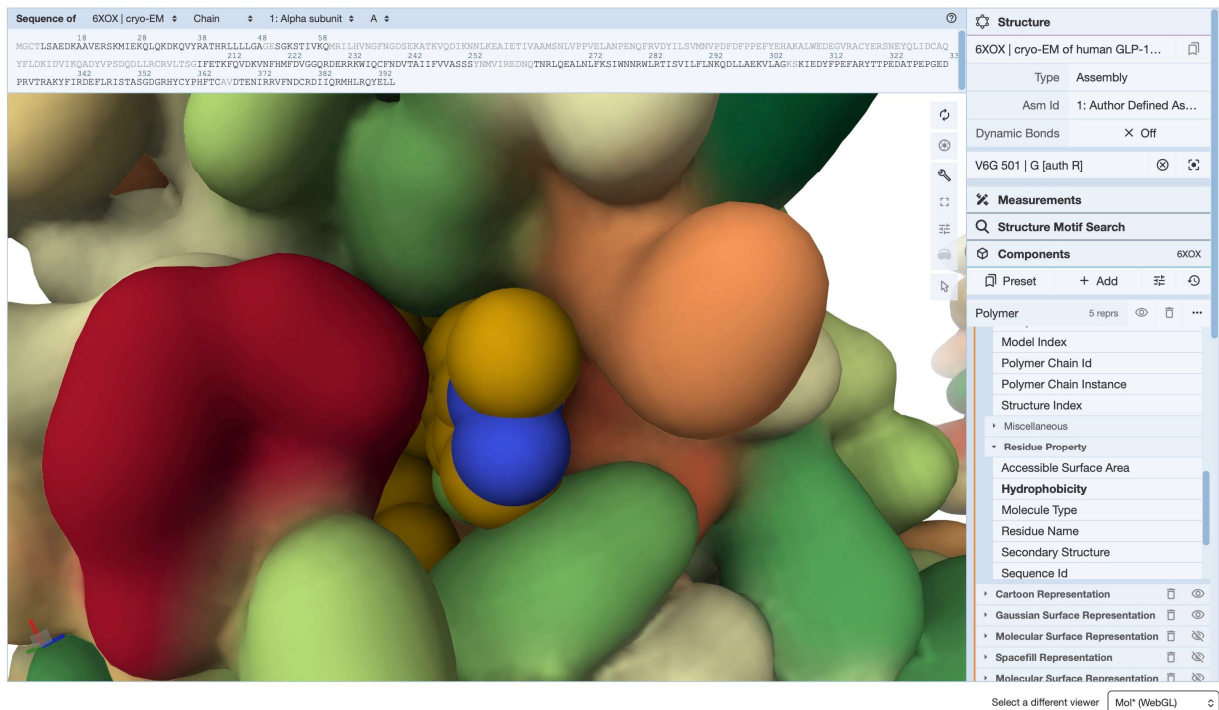




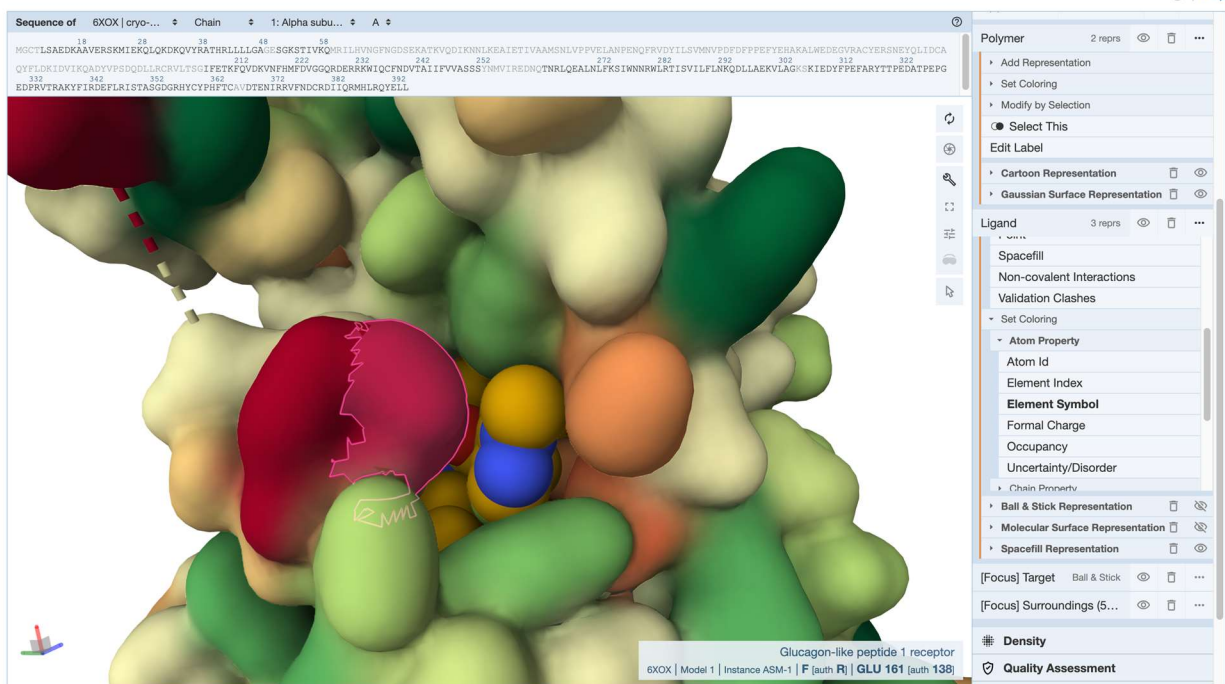
B. Sun, B.K. Kobilka, K.W. Sloop, D. Feng, T.S. Kobilka, RCSB PDB of PDB ID 6XOX, *cryo-EM of human GLP-1R bound to non-peptide agonist LY3502970*, RCSB PROTEIN DATA BANK, <https://www.rcsb.org/3d-view/6XOX> (last visited Feb. 11, 2026)

6XOX | pdb_00006xox

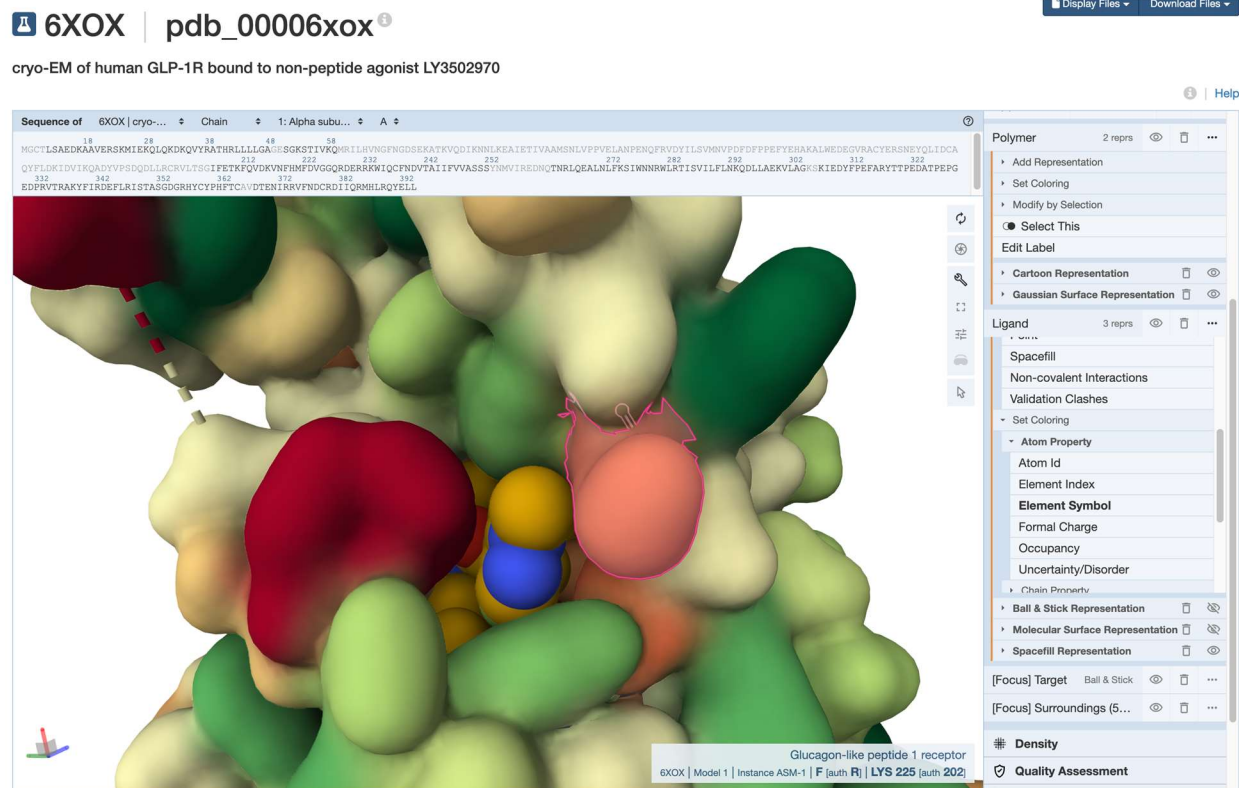
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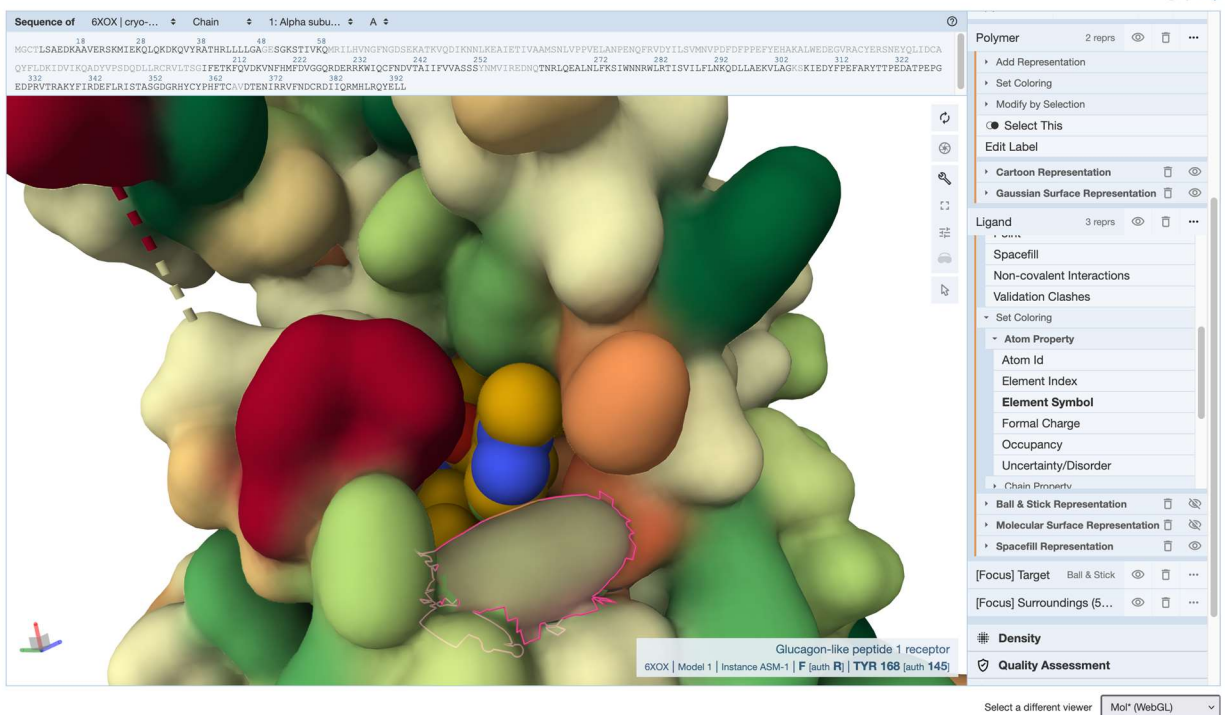
B. Sun, B.K. Kobilka, K.W. Sloop, D. Feng, T.S. Kobilka, RCSB PDB of PDB ID 6XOX, *cryo-EM of human GLP-1R bound to non-peptide agonist LY3502970*, RCSB PROTEIN DATA BANK, <https://www.rcsb.org/3d-view/6XOX> (last visited Feb. 11, 2026)



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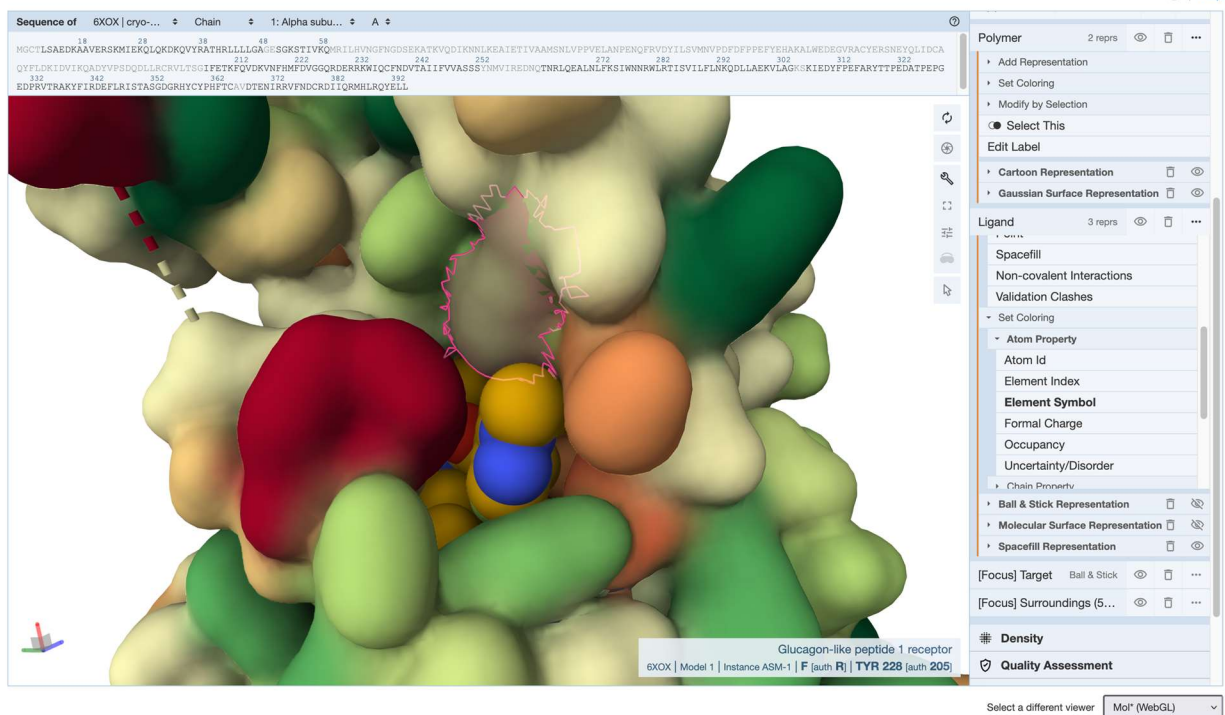
B. Sun, B.K. Kobilka, K.W. Sloop, D. Feng, T.S. Kobilka, RCSB PDB of PDB ID 6XOX, *cryo-EM of human GLP-1R bound to non-peptide agonist LY3502970*, RCSB PROTEIN DATA BANK, <https://www.rcsb.org/3d-view/6XOX> (last visited Feb. 11, 2026)



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6XOX | pdb_00006xox³

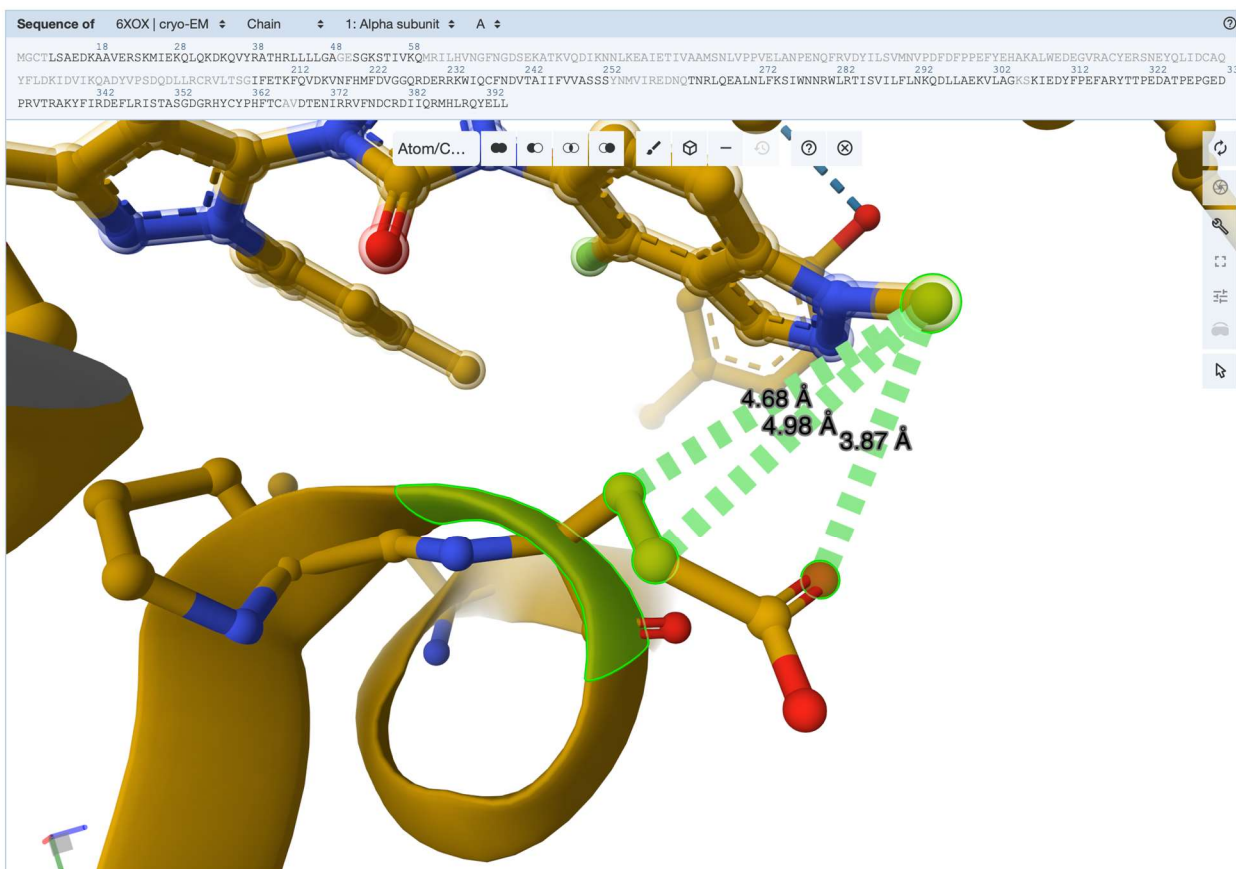
cryo-EM of human GLP-1R bound to non-peptide agonist LY3502970



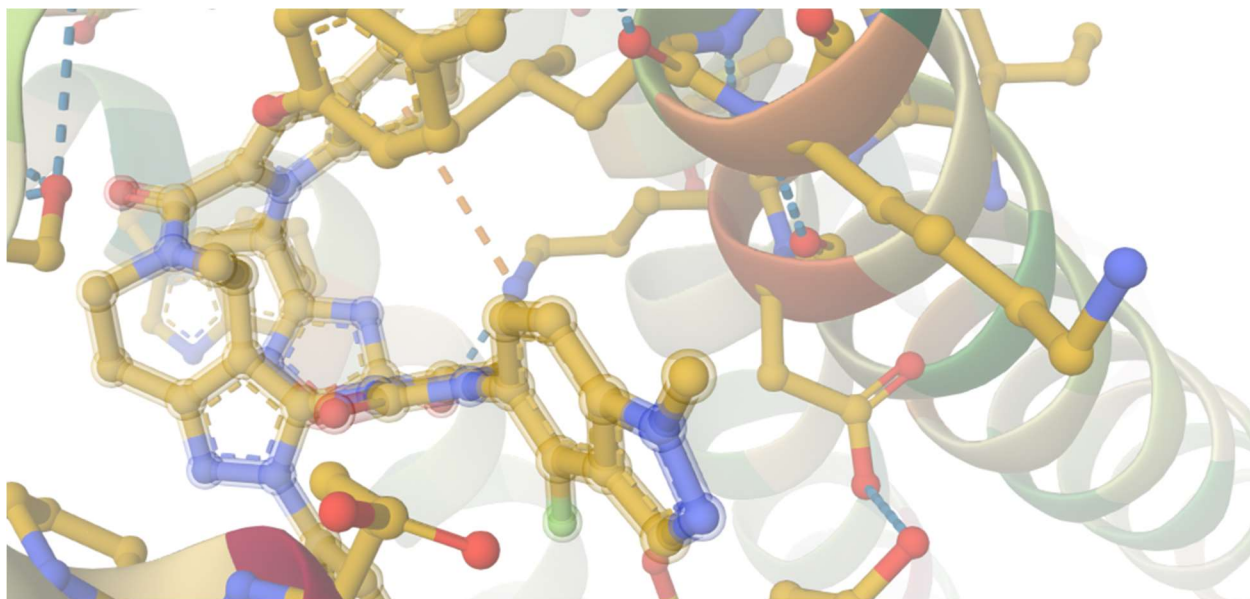
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6XOX | pdb_00006xox

cryo-EM of human GLP-1R bound to non-peptide agonist LY3502970



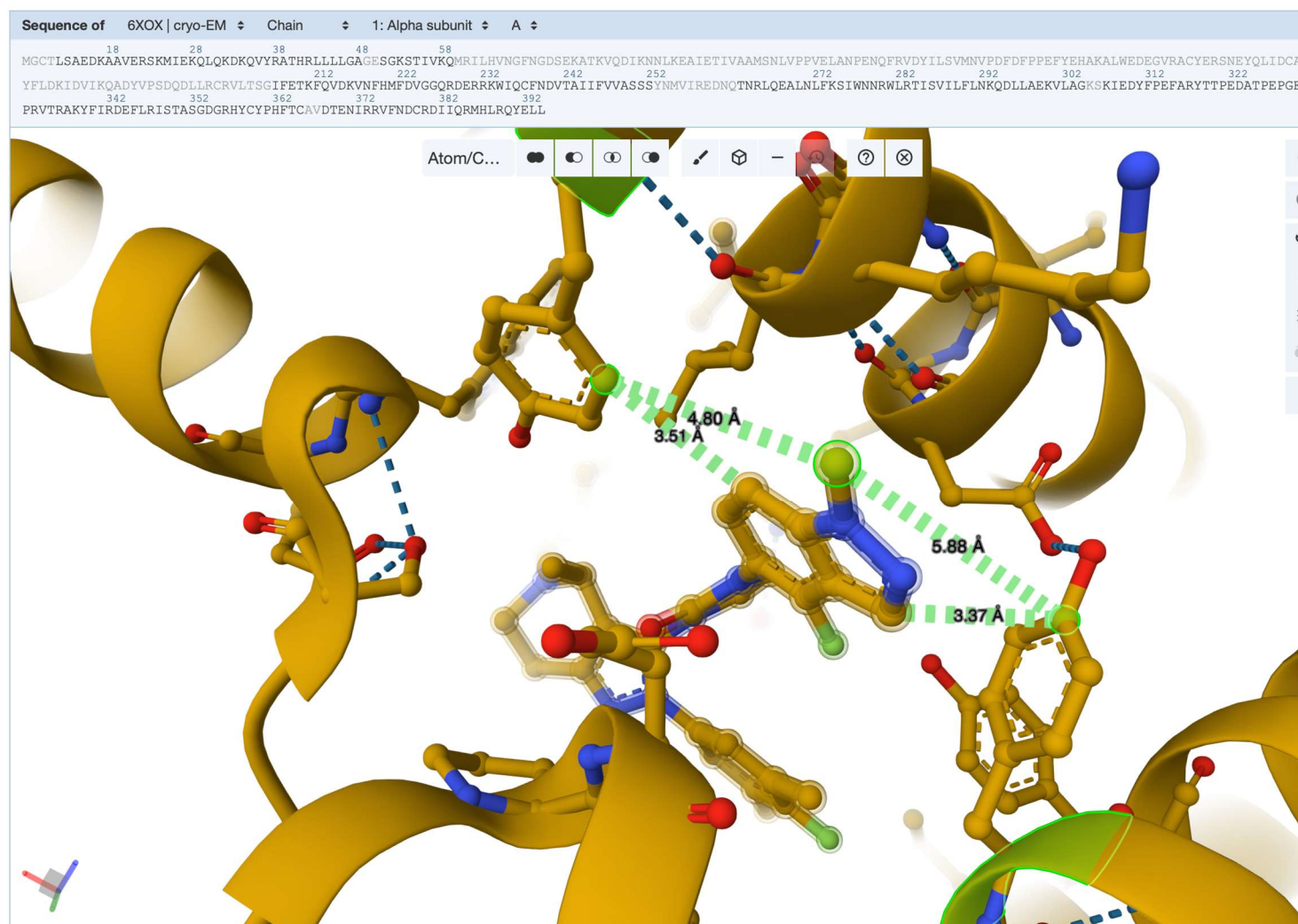
B. Sun, B.K. Kobilka, K.W. Sloop, D. Feng, T.S. Kobilka, RCSB PDB of PDB ID 6XOX, *cryo-EM of human GLP-1R bound to non-peptide agonist LY3502970*, RCSB PROTEIN DATA BANK, <https://www.rcsb.org/3d-view/6XOX> (last visited Feb. 24, 2026)



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6XOX | pdb_00006xoxⁱ

cryo-EM of human GLP-1R bound to non-peptide agonist LY3502970



B. Sun, B.K. Kobilka, K.W. Sloop, D. Feng, T.S. Kobilka, RCSB PDB of PDB ID 6XOX, *cryo-EM of human GLP-1R bound to non-peptide agonist LY3502970*, RCSB PROTEIN DATA BANK, <https://www.rcsb.org/3d-view/6XOX> (last visited Mar. 3, 2026)

Structure Summary

Structure

Annotations

Experiment

Sequence

Genome

Versions

Biological Assembly 1

Explore in 3D: Structure | Sequence Annotations | Electron Density | Validation Report | Ligand Interaction (V6G) | Predict Membrane

Global Symmetry: Asymmetric - C1
Global Stoichiometry: Hetero 6-mer - A1B1C1D1E1F1

Find Similar Assemblies

Biological assembly 1 assigned by authors.

Biological Assembly Evidence: gel filtration

Macromolecule Content

- Total Structure Weight: 187.03 kDa
- Atom Count: 10,629
- Modeled Residue Count: 1,358
- Deposited Residue Count: 1,658
- Unique protein chains: 6

6XOX | pdb_00006xox

cryo-EM of human GLP-1R bound to non-peptide agonist LY3502970

PDB DOI: <https://doi.org/10.2210/pdb6XOX/pdb> EM Map EMD-22283: EMD EMDDataResource

Classification: MEMBRANE PROTEIN

Organism(s): Homo sapiens, Mus musculus, Lama glama

Expression System: Trichoplusia ni, Spodoptera frugiperda, Escherichia coli

Mutation(s): Yes

Membrane Protein: Yes

OPM

PDBTM

MemProtMD

mpstruc

Deposited: 2020-07-07 Released: 2020-11-18

Deposition Author(s): Sun, B., Kobilka, B.K., Sloop, K.W., Feng, D., Kobilka, T.S.

Experimental Data Snapshot

Method: ELECTRON MICROSCOPY
Resolution: 3.10 Å
Aggregation State: PARTICLE
Reconstruction Method: SINGLE PARTICLE
Starting Model: experimental
View more details

wwPDB Validation

3D Report

Full Report

Metric	Percentile Ranks	Value
Clashscore		6
Ramachandran outliers		0
Sidechain outliers		1.0%

None

Worse

Better

Percentile relative to all structures

Percentile relative to all EM structures

This is version 1.4 of the entry. See complete history.

Literature

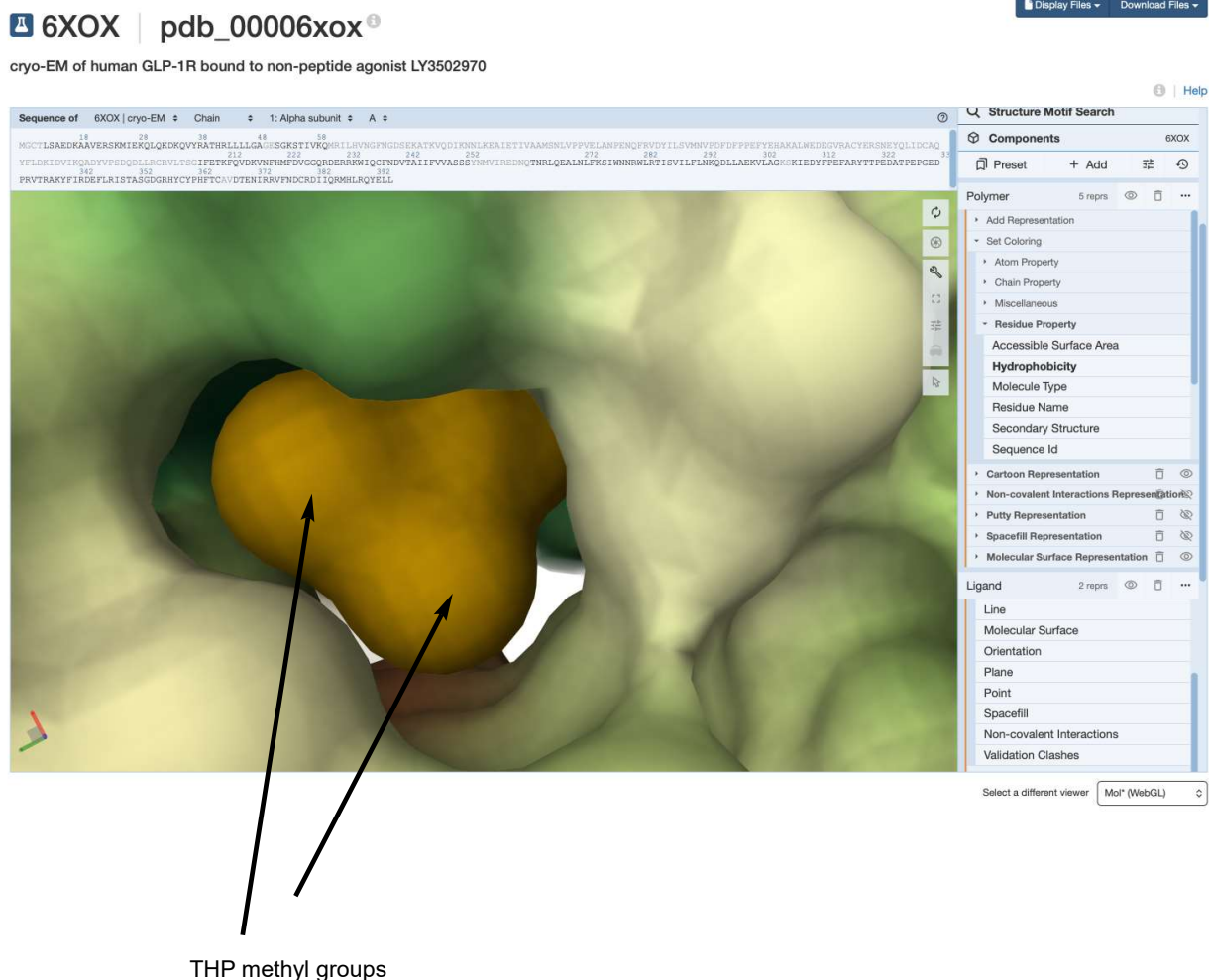
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Structural basis for GLP-1 receptor activation by LY3502970, an orally active nonpeptide agonist.
Kawai, T., Sun, B., Yoshino, H., Feng, D., Suzuki, Y., Fukazawa, M., Nagao, S., Wainwright, D.B., Showalter, A.D., Droz, B.A., Kobilka, T.S., Coghlan, M.P., Willard, F.S., Kawabe, Y., Kobilka, B.K., Sloop, K.W.
(2020) Proc Natl Acad Sci U S A 117: 29959-29967
PubMed: 33177239 Search on PubMed Search on PubMed Central
DOI: <https://doi.org/10.1073/pnas.2014879117>
Primary Citation of Related Structures:
6XOX

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B. Sun, B.K. Kobilka, K.W. Sloop, D. Feng, T.S. Kobilka, RCSB PDB of PDB ID 6XOX, *cryo-EM of human GLP-1R bound to non-peptide agonist LY3502970*, RCSB PROTEIN DATA BANK, <https://www.rcsb.org/3d-view/6XOX> (last visited Feb. 11, 2026) (annotated)